

CAMBRIDGE HISTORICAL COMMISSION

AUG 10 2021

831 Massachusetts Avenue, 2nd Fl., Cambridge, Massachusetts 02139 Telephone: 617 349 4683 TTY: 617 349 6112

CAMBRIDGE HISTORICAL Interior COMMISSION

E-mail: histcomm@cambridgema.gov URL: www.cambridgema.gov/Historic

APPLICATION FOR CERTIFICATE

1. The undersigned hereby applies to the Cambridge Historical Commission for a Certificate of (check one box): Appropriateness, Nonapplicability, or Hardship, in accordance with Chapter 40C of the Massachusetts General Laws and/or Chapter 2.78 of the Municipal Code.
2. Address of property: Intersection of Story & Mt Auburn St , Cambridge, Massachusetts
3. Describe the proposed alteration(s), construction or demolition in the space provided below: (An additional page can be attached, if necessary).
Crown Castle is proposing to install a small cell at an existing city of Cambridge street light location in the Harvard Square Conservation District. With the installation the height of the pole would increase from 27' 6" to 32'-8".
The proposed equipment would be (1) amphenol antenna, (1) Apelio RCEN-Slim-361812, (2) Commscope ion-ML radios, and (1) PTS90X1 disconnect load center. Information on the equipment can be found in the attached node profile drawings.
For the underground work Crown Castle is proposing to install 100' of (2) 4" pvc for fiber from VZMH #26/579 to proposed Crown Castle hand hole. Then installing 6' of (1) 2" PVC for fiber from CC proposed handhole to proposed handhole. Then proposed 4' of (1) 3" PVC from proposed hand hole to proposed HSQ-020 location. For power 23' installation of (1) 2" PVC from EMH #C1403T to proposed handhole. For more information on proposed underground work please see attached P-Plans.
I certify that the information contained herein is true and accurate to the best of my knowledge and belief. The undersigned also attests that he/she has read the statements printed on the reverse.
Name of Property Owner of Record: Crown Castle Fiber LLC
Mailing Address: 3200 Horizon Drive Suite 150 King of Prussia, PA 19406
Tolophono/Fax: 678 464 2027 F mail: brvn.thornburgh@crowncastle.com
Signature of Property Owner of Record: (Required field; the application will not be considered complete without the property owner's signature)
Name of proponent, if not record owner:
Mailing Address:
Telephone/Fax: E-mail:
(for office use only):
Date Application Received: 8-10-21 Case Number: 4648 Hearing Date:
Type of Certificate Issued: Date Issued:

Instructions for Completing this Application:

An application must be filed with the Cambridge Historical Commission (CHC) before work begins. Twelve (12) copies of the application should be attached to twelve (12) copies of supplementary material such as sketches, scale drawings, site plans, specifications, or photographs sufficient to enable the CHC to understand the details of the work proposed and to make a determination on the application. Plans no larger than 11" x 17" are preferred. Please submit reduced copies of plans if the originals are of a larger dimension. Do not use spiral bindings, plastic covers, or heavy stock (these will be removed prior to mailing). Double sided copies are encouraged to save paper and postage. See our website or call for a list of meeting dates and deadlines.

The CHC staff welcomes advance inquiries for interpretations or advice. Call 617/349-4683 for appointment. An application is considered incomplete without accompanying plans and drawings. The CHC reserves the right to determine an application incomplete at the time of hearing the application if it determines that the plans, drawings and other information submitted are not sufficient to enable it to determine whether to grant or deny a certificate.

Owners are urged to appear before the CHC in person or to designate an agent to act for them. The CHC will deem the agent to be authorized by the owner to make decisions regarding the extension or waiver of the period within which the CHC is otherwise required to make a determination on the application. All meetings are open to the public.

Administration of Historic Districts, Landmarks, and Protected Properties:

The administration of historic districts and landmarks is guided by the provisions of Ch. 40C of the Mass. General Laws and by Ch. 2.78 of the Code of the City Of Cambridge. Other properties may also be subject to CHC jurisdiction including properties with conditional variances and properties governed by individual preservation restrictions.

Any new construction, alteration of exterior architectural features, or demolition within an historic district or on the premises of a protected property or a designated landmark must be reviewed by the CHC. No building permit for such work on a protected property, designated landmark, or property within a historic district may be issued by the Inspectional Services Department until a certificate has been issued. The CHC must approve the alteration or construction of all structures, including signs, fences, walls, terraces, walks, driveways, light fixtures and the like, which are "open to view from a public street, public way, public park or public body of water," whether or not a building permit is required, and must approve changes in exterior color for properties within a historic district or as otherwise agreed.

Prior to each hearing, the CHC staff will take slides or digital photographs of the subject property in daylight with ordinary camera equipment for the purpose of documenting the publicly visible conditions of buildings and exterior architectural features for the CHC and the public to view at the hearing. More information can be provided on request.

The CHC issues three types of certificates. A <u>Certificate of Appropriateness</u> will be issued when the CHC has determined that the construction or alteration will be appropriate for or compatible with the preservation or protection of the historic district, designated landmark, or other protected property. A <u>Certificate of Nonapplicability</u> may be issued when an application does not involve an exterior feature, or when the exterior feature is not then subject to CHC review. <u>A Certificate of Hardship</u> may be issued when failure to approve an otherwise inappropriate project would involve substantial hardship to the applicant and the CHC determines that the project can be accomplished without substantial detriment to the purposes of the district, preservation restriction, or landmark designation.

The CHC considers each application on its own merits, and does not apply specific architectural guidelines. Landscaping with plant materials is not subject to CHC review unless it is planned in conjunction with alterations or new construction. The CHC must approve projects that are not incongruous with the historic aspects or the architectural characteristics of the protected property, landmark, or historic district.

PROJECT TEAM

LOCATION MAP

CROWN CASTLE PROJECT MANAGER CROWN CASTLE FIBER BACKHAUL PROVIDER:

NAME: SOPHIA BUCKLEY

CALL CROWN CASTLE SMALL CELL NOC AT (888) 632-0931 AND THE CROWN CASTLE CM PRIOR TO ACCESSING SITE

ICONTRACTOR SHALL VERIFY ALL PLANS, EXISTING INTENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IERSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IERSIONS & FIELD CONDITIONS ON THE LYOR OF ANY OF THE WORK OF BEING WITH THE WORK OR BE

NAME: DAN WILLIAMS

CROWN CASTLE CONSTRUCTION MANAGER:



SITE CASCADE:

PROJECT

HSQ-020 SCU# 464625

VZW 4G NODE LOCATION

CASTLE

SITE TYPE:

28'-7" STREETLIGHT POLE

FOR PERMITTING PURPOSES ONLY

21 Oxford Rd Mamsfield, MA 02048 www.piketelecom.org 1-508-337-7600

PERMIT DRAWING

DRAWING DESCRIPTION:

<u>-</u> [-AREA MAP peabody St (28) 1" = 400'SI GN-:

LONGITUDE (NAD83): -71*07'23.62" -71.123228°

SITE INFORMATION

COUNTY:

ZONING DISTRICT: C-2 RESIDENCE

ZONING JURISDICTION CITY OF CAMBRIDGE

ADA COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ALL ADA SITE REQUIREMENTS ARE MET OR ARE NOT APPLICABLE.

TELEPHONE COMPANY VERIZON NEW ENGLAND POWER COMPANY EVERSOURCE



HSQ-020 SCU# 464625

L INTERNATIONAL BUILDING CODE

2. INTERNATIONAL MECHANICAL CODE

3. ANSI / TIA-222 STRUCTURAL STANDARD

4. NEPA 789 - LIGHTING PROTECTION CODE

5. UNIFORM PUNISNING CODE

6. NATIONAL ELECTRICAL CODE

7. 2027 NATIONAL ELECTRICAL NOW

SAFETY CODE

7. WORLD CODE

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVESTIGATORY OF UTILITIES. IN THIS AREA, IT IS THE CONTRACTORS RESPONSIBILITY TO VERBIT THE LOCATION OF ALL ITILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CALL 811 OR 1-888-DIG-SAFE FREE AND IT'S THE LAW

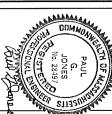
APPLICABLE CODE

IN THESE PLANS IS TO BE CONST CONFORMING TO THESE CODES



TITLE SHEET

<u>T-1</u>



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7/21/2021

REVISIONS:	THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WHITHOUT THE EXPRESS WRITTEN CONSENT OF CROWN CASTLE	DRAWING NOTICE:

NEW CROWN CASTLE INSTALLED EQUIPMENT

PROJECT EQUIPMENT

 (1) APEUO RCEN-SLIM-361812 ENCLOSURE (2) COMMSCOPE ION-ML RADIOS

(1) AMPHENOL 2C4U3MT360X06F02s0 ANTENNA

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			05/07/23	04/21/23	DATE
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- LALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES, STANDARDS, AND SUPPLEMENTS.
 RULES AND SPECIFICATIONS FOR EXCAVATION ACTIVITY WITHIN THE LOCAL MUNICIPAL JURISDICTION.

- AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS NEC- NATIONAL ELECTRICAL CODE
- NESC NATIONAL ELECTRICAL SAFETY CODE

- * OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

 * BOSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

 * OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- ANSITIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION 222-G STANDARD
- * ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES
 THE MOST STRINGENT CODE WILLAPRY IN THE CASE OF DISCREPANCES OR DETERMINES IN THE CODE REQUIREMENTS.

- S. GENERAL COVIL. STRUCTURAL, ELECTRICAL, AND AVITENNA DRAWANGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWANGS, ALL COORDINATION SMALL BETHE RESPONSIBILITY OF THE GENERAL CONTRACTOR. COO NOT STEMMET EISSIED MESKERDERFITS PHESKERING DRAWNSS. ALL SHOWN DIMENSIONS THEE PRECEIBENCE OFFR SCHUMS. S.MINGR DENATIONS FROM THE DESIGN LIVYOUT ARE AMTICIPATED AND SMALL SE CONQUEIEDS AS PART OF HEE WORK HONEREN, AND CHANGE THAT ALTERS THE COLLECTIVE AND NITED OF THE DESIGN WILL SEE MANEE, OR PERMITTED BY THE CONFECT (MITCH) A DONAIGE ROBER.
- THE GENERA WITES CONTINUED HEBBU NEE PART OF THE PLANS AND SPECIFICATIONS. AND NEET DISE COMPILED WITH IN ALL RESPECTS THE MOST RESTRICTIVE MOTES SPECIFIED HALE TO THAN PRECEDENCE. CERTAIN SECTIONS OF THE GENERAL MOTES MAY NOT APPLY TO EXBRY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL MOTES IN ALL RESPECTS.
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- REPRESENTATION OF THE TREE MORTH OFFER THAN THOSE FOUND ON THE DUT OF THE SUMPK THRAMMOS WALL, NOT BE LISED TO IDENTETY OR ESTAULISH THE BEARDING OF THE TREE WORTH AT THE SITE. THE COMPACTOR SHALL HER YOLLEY ON THE BUT OF THE SUMPK DRAWING AND SUMPKEYOR SUMPKEYOR THE FOR THE ESTAULISHED FOR THE THE WORTH A THE SITE. THE CONTRACTOR SHALL HER YOLLEY ON THE DUT OF THE WORK IF ANY DESCRIPTION SUMPKEY THE WORLD STRUCKEY THE WORLD SHALL HOST THE STRUCKEY OF THE WORK IS THE WORK IN THE WORK IS THE WORK IN THE WORK IS THE WORK IS THE WORK IS THE WORK IS THE WORK IN THE WORK IN THE WORK IS THE WORK IS THE WORK IN THE WORK IN THE WORK IS THE WORK IS THE WORK IN THE WORK IN THE WORK IS THE WORK IN THE WORK IN THE WORK IS THE WORK IN THE WORK IS THE WORK IN THE WORK IN THE WORK IS THE WORK IN THE WO
- 10. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY THANKED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETED FOR THAN LAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK. II. THE CONTRACTOR WILL BE REQUEST TO ASSUME SIZE AND COMPILET RESPONSIBILITY FOR THE LOBERT CONTRIONS DERING THE COLESSE OF CONSTRUCTION OF THE PROLECT. THIS RALLIGES THE CHIEF OF ALL PRESIDES AND PROPERTY. THIS REPORT CONTRIVENT AND IS NOT HUMBET TO ANONAME WARROOM FOURST THE CONTRACTOR FURTHER AGREES TO INDEMNITY AND HOLD THE DESIGN ENGINEER HAWRESS FROM ANY AND ALL UNBILTY, REAL OR ALLIGED, IN CONNECTION FOR THE PROPERTY AND THE PROPERTY AN
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS, SUCH AS CSHA COMPLIANCE, DURING THE PROGRESS OF WORK THE ENGINEER WILL NOT ADVISE NOR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- 13. SAFETY MEETINGS SHALL TAKE PLACE EVERY MORNING BEFORE THE WORK DAY BEGINS. 14. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE SECURITY OF THE STE UNTIL COMPLETION OF THE CONSTRUCTION.
- 15. IT IS THE CONTRACTIOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROCRESSION IS NOT INTERRUPTED.
- A THE CONTRACTOR IS INSTRUCTED TO COOPERANTE WITH ANY AME ALL THERE CONTRACTIONS REPROPARIES WORK ON THIS JOSSITE DURING THE PERFORMANCE OF THIS CONTRACTION AREA.

 7. THE CONTRACTION SHALL SUBMIT, A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WIELL IN JOUANCE OF THE STARTING DATE OF THE WORK. THE OWNER SHALL ALSO BE KNOTHED OF A CHANGE IN THE CONSTRUCTION SCHEDULE.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
- ON THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND ENVIRON OF CONTRACTOR SESSION OF SENDING AND INSURANCE SESSION OF SENDING SENDING
 - ESCH COMPANTON IS RESPONSIELE FOR PILLING BILLIONS PERMITS AT THE LOCAL, LIRBOUTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVINE THE LIRBOUTION WITH ALL PROPER PERMITS IN PROPERTY AS COMPANTOR OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCLIRENCE THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CENTRICATIONS, ETC. PRIOR TO BEGINNING WORK.
- A LODPY OF THE APPRONCED HANS SMALL BE KERT IN A PAGE SPECIPIED BY THE CONERNIAGACHOY, AND THE APPRONCED HANS SHE CONTRACTION AT THE ST HE CONTRACTORS RESPONSIBILITY TO BASHE ALL CONSTRUCTION STEED HERE IT HE SAME INFORMATION AS THE APPRONCED HANS, THE CONTRACTOR SMALL ALSO MAKTAN ONE SET OF PANS AT THE STEED PROPERS. TTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS, ROUTING AND CIRCUITS UPON COMPLETION OF
- THE CONTRACTOR IS TO CONTACT BOTH LOCAL POMER AND TELEPHONE TUTH COMPANIES, BEFORE CONSTRUCTION BEGINS TO GREEK SERVICE, ORIGIN AND PAY ALL FEES ASSIGNATED WITH HE CONTRICTION, SOMEDLIE RISTILATION OF SERVICE, COORDINATE CONDUT RUINTENMINITON POINTS AND ODTAIN ANY FIELD INATEMAS THAT MAY BE SUPPLED BY THE UTILLITY COMPANIES AND NORALLED BY THE CONTRICTIONS.
- 18. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY. THE CONTRACTOR SWILL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK DURING CONSTRUCTION TO WORD DIMAGE, COLLAPSE, DISTORTION, MISULGIMENT AND ALTENATION OF EXISTING WARRANTIES.
- 27. THE COMPRIACTOR SMALL MONTOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.
 28. THE COMPACTION SMALL COCRONIANTE THE FINAL DIMENSIONS OF ANY TYPE OF STRUCTURAL LAYOUT WITH THE FOOTPRINT OF THE NEW EQUIPMENT BETONE CHCHENING
 ANY MATERIALS.
- 9. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITION PRIOR TO INSTALLATION, AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT, FOR EACH CLASS, GROUP, OR EQUIPMENT.
- ALL MATERIALS MATE AS STORED DAY, LEPIEL AND DRY LOCATION AND IN JAMANES PHAT WILL AND OBSENTION THE FORM OF CHIEF WORK RELATED OR NOT RELATED TO THIS CONTRIPACT, ANY CENERATOR OR MATERIAL STORAGE MATERIAL RECOVERAGED ATTOM OF THE MANUFACTURER, THE CONTRIACTOR SHALL INSPECT THOROUGHLY MAL MATERIALS AND EQUIPMENT PRIOR TO FINAL INSTALLATION, DAMAGED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED.
- 1. ALL MATERIALS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS,
-), except for warning signs such as no trespassing and signs that state ownershp and emergency telephone numbers, no sign shall be located on the Property, existing signs will be mantaned and protected.

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PLANS PREPARED FOR:

CROWN

- . BY SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR ACROPMEDGES THAT HE HAS THORCUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS VISITED THE SITE, AND IS FAMILIAR WITH THE CONDITIONS ENCOUNTERED AT THE SITE.
- I, THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING WHICH THE CONTRACTOR MIGH-NOT HAVE FULLY EXPLORED PRIOR TO BIDDING.
- LNO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTES THAT MAY BE ENCOLUNTENED OR OF ANY OTHER RELEWANT MATTER CONCEINING THE WORK TO BE PERSONADD WILL BE ACCEPTED AS A REJUSTA FOR ANY PAULIE OR OMISSION ON THE PART OF THE CONTRACTOR TO PLUFILL THE REJURBIEDITS OF THE CONTRACTOR.
- S. IT IS UNDERSTOOD BY THE DWAED THAT THE CONTRACTOR IN SUBMITTING HIS BID, WARRANTS THAT HE HAS CHEETLLY EXAMINED THE SITE OF THE PROJECT TO BECOME ACQUANTED WITH THE SURVOUNDING PROPERTIES, THE MEANS OF APPROACH TO THE SITE, THE CONDITIONS OF THE ACTUAL JOB SITE. THE FACILITIES FOR DELAYEDING, STORME, PLACIFICA, WARLAND, AND ALL DEPOLITION, AND THE DEPOLITION OF THE PROJECT AND ANY AND ALL DEPOLITIES THAT MAY BE ENCONTERED DURING THE DECOUTION OF ALL THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- IN THE CONTRIVENCE PERSONNEL PREMIETE AND PROPERTY OF THE CONTRIVENCE OF THE CONTRIVENCE THE CONTRIVENCE IS RESPONSIBLE FOR HAVING ALL INDEPREGRANDAL INTERSECTION THE LOCATE THE LUTTER OF CONTRIVENCE AND ADDETTS FALL REPONSIBLIT FOR ANY AND ALL DANAGES WHICH MIGHT BE CAUSED BY THE CONTRIVENCE OF THE TOLD AND THE CONTRIVENCE OF THE CON
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- ENGINEERING SEAL:

PURPOSES ONLY FOR PERMITTING

21 Oxford Rd Mansfield, MA 02048 www.piketelecom.org 1-508-337-7600

- IN PACE, PROJOCIT MARES, MANEFACTURER MARES, CATALOR MARRESS, AND INDICATIONS OF EXISTING PROJUCT TYPES SHOWN ON THE DRAWNOS ARE BELIFIED TO BE ACCURANTE. FIRST, MED RECOVERED TO BE INCLUDIATED, AND THE PACE THAT BECOVERED TO BE INCLUDIATED, AND THE CONTRACTION OF THE CONTRACTION AND THE CONTRACTION OF THE CONTR
- I "HE COMPACTOR SHALT TAKE ALL PRECAUTIONARY MESAURIS AND BEFORTS TO PROTECT THE STRUCTURAL NEGOTY OF DISTING STRUCTURES AND PROPERTIES. WEST WORK OF PROPERTIES HE MOVED FOR THE CONSTRUCTION.

 PAGE OF THE CONSTRUCTION.
- LTHE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONJMENTATION. ANY MONJMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNERS REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER SUPERVISION OF A LICENSED LAND SURVEYOR.
- однейся те солгостов зонт го, сесы с метот в метот и с метот в метот метот за поветие с метот в метот в метот с месте постав он и в втом с метот в метот в метот в метот в метот в метот в метот можно место метот метот в м
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- IN THE END THAT THE COMPACTOR DAMAGE ANY ENSITING WHER, SEMER DRAWAGE EXETTION, GAS, TRAFFE SYSTEM, COMMINICATIONS OF OTHER UTILITY OWNER AMEDICALLY AND THE COLUMN PROCEDURES REQUIRED BY THE LOCAL LINSDICTION AND THE UTILITY OWNER AMEDICALLY ADDRESSED FOR THE RECOVERY TO ANY PROCEDURES REQUIRED BY THE LOCAL LINSDICTION(S).
- 1.4. LPASTING ATTINE SEMER WATER CAS, ELETTINE, AND OTHER UTILITIES WHERE EXCUNDEDED IN THE WARDS WASHES HE PROTECTED. AT ALL THASS, WHERE EXCUNDED FOR THE PROPER RECEIVED NO FOR THE WASHES FEED AND THE PROPER RECEIVED NO FOR THE WASHES AND THE SEMENT BE CONTRACTOR WHEN END FOR THE WORKING FOR THE WORKING CORE HE.

 ENCHANTING OR PER DIPLLING ARCUNO OR HEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING THE MOREON CITEM.
- IF PAI MADINE EISTRIOL, TELEPHOE, SEME, WITE, OR MY DIESE UTILITY ASE EXCOLUENCE AND ATERPRISE MITH THE EXCLUTION OF THE WORK, THE CONTRACTORS TO THE MOORE THE UTILITY AND COPE FLOW, OF DIESMES REPORT TERMINITES THE UTILITY AND AN ATERPRISE IT NO LONGEST CONTRACTORS. THE CITIEST WHICH THE UTILITY CONTRACT TO THE UTILITY CONTRACTOR TO THE UTILITY CO

DRAWING NOTICE: -

- 20. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 21, THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD CONDITION AS BEFORE DISTURBED AS DETENMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 22 PROTECT FINISHED SURFACES NOLLDING JAMES AND HEADS OF OPENINGS USED AS PASSAGEWAYS THROUGH WHICH EQUIPMENT AND INITERIALS WILL PASS.
 23. PROVIDE PROTECTION FOR EQUIPMENT ROOM SURFACES PRIOR TO ALLOWING EQUIPMENT OR INFERIOLS TO BE MOVED OVER, AROUND, OR WITHIN SURFACES,
- 24. IGED PRINSHED SUPRÁCES CLÉAN, UNIVARIED AND SUTINELY PROTECTED UNTIL, COSTE DE ACCEPTED BY THE OWNER.

 25. IN THE REPART OF DAMAGE TO AM EDISTRING STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE OWNERS OF MANGES REPARTATION AND PRAINS TO THE SUPERFORM OF THE OWNER OF MANGES REPARTS AND PRAINS TO THE SURFEACH OF OTHER OWNERS. AND EDISTRING THE SURFEACH OF THE OWNER OF MANGES REPARTS AND PRAINS TO THE SURFEACH OF THE OWNER OF MATERIAL TO SURFEACH ADVENT CONTRACTOR TO REPORT ON THE PRAINS. ALL DEPOSES ASSOCIATED WITH THE REPARTS AND PREVIOUS SHALL BE ANDE FROM THE END BY THE GENERAL CONTRACTOR SELECTED FOR THIS CONTRACT.

 26. ALL OLD SON CONDETTE STEEMALS SHALL BE ANDE FROM THE NEADEST JOINT ON SCORE LINE ON ONE SIDE OF THE EXCANATION, TO THE NEADEST JOINT ON SCORE LINE ON THE CONTRACTOR SELECTED FOR THE EXCANATION, TO THE NEADEST JOINT ON SCORE LINE ON THE CONTRACTOR SELECTED FOR THE EXCANATION.
- 7. ALL DITE ORBERC SERMANS SMALES MACES MEATY SOLMENDAL IN DISES OF THE SCAMMING YOUR SERVEST LAST OF THE SERVEST AND OF THE SCAMMING WHILE BLANCH AND HER STORAGE MAY NOT AN THORSE REPORTED AND AN AUGUST STORAGE MAY NOT THE CONTRACTION OF WITH ANOTHER FOR THE CONTRACTION OF WITH ANOTHER FOR THE CONTRACTION OF WITH ANOTHER FOR THE CONTRACTION OF THE CONT . ALL CUTS ON ASPHALT SIDEWALKS SHALL BE MADE BY NEATLY SQUARING ALL EDGES TO FORM A RECTANGULAR SHAPE AT A 80 DEGREE ANGLE.
 ANY PANEMENT OR LANE MARKINGS THAT ARE DISRUPTED BY THE WORK SHALL BE RESTORED ACCORDING TO LOCAL LIPRISDICTION REQUIREME.

- , any traffic loops or other signal systems embedded in the public right-of-way diskupted by the work shall be restored according to local Jurisdiction requirements.
- , ADDITIONAL TIME REQUIRED TO SECURE REPLACEMENT AND MAKE REPAIRS WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION.

THESE DOCUMENTS ARE COMPIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR REDISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF CHOWN CASTLE. 171

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			UPDATE EQUIPMENT	ORIGINAL	DESCRIPTION	REVISIONS:
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			GL 05/07/	GL 04/21/	DAT	l

HSQ-020 SCU# 464625

STE ADDRESS:

89 STORY ST

CAMBRIDGE, MA 02138

POLE# N/A

GENERAL NOTES

SHEET DESCRIPTION: -

1. ACCESS.

1. COORDINATE WITH THE SITE OWNER ANDOR LOCAL JURISDICTION REGARDING THE CONSTRUCTION SCHEDULE & SITE ACCESS. BUSINE THAT THE OWNER OF PARSHIT PARSES IS NOTIFIED IN WARTING OF COORDINATION ACTIVATION. IS NOTIFIED IN WARTING OF COORDINATION ACTIVATION.

THE CONTRACTOR SHALL COMBINATE ALL STECHAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATON, INTERBUTITON OF ANY MECHANICAL ANDORS LECTRICAL, SERVICES, MATERIAL DELIVERES AND STURNOES, STURNO

THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH PROPERTY OWNER, PROPERTY OWNERS REPRESENTATIVE, AND/OR LOCAL JURISDICTION DOMBACTOR SHALL COORDINATE WITH A PROPERTY OWNER REPRESENTATINE. THE TEMPOBURY REMOVAL OF FENCE, LANDSCUPING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PRIOR TO COMMENCING THE WORK.

, CONTRACTOR TO NOTIFY PROPERTY OWNER OF THE CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION

remot stanno or reachte imterms from new and engine surfaces immentely, remote haveous accumlations of debig requent, at least duity, correct dust froduciago oferancios during cuting, palting, parting and there exclud be no over spranno pant in parong are, vaculai medentely affectorementos.

, THERE SWALL NOT BE ANY CHEATION OF NOISE OUTSIDE THE NORMAL HOURS MANONED BY THE LOCAL JURISDICTION AND THE RECEIPT OWNERS OR OWNERS REPRESENTATION, LIMESS OFFERWISE, KREED UPON WITH THE LOCAL JURISDICTION AND PROPERTY OWNERS OF OWNERS REPRESENTATION, MOSE SHOULD BE REFIT TO A MANUAL THROUGHOUT CONSTRUCTION.

AND EXISTING BLILDING STRUCTURE VIBRATION CEDERATED BY THE CONSTRUCTION PROCEDURES, EQUIPMENT, TOOLS AND OPERATIONS ARE TO BE KEPT TO A ITCHAELE MANAMAM, WHERE USE OF HIGH MOISE LEVEL EXIDIPMENT IS IMMODIDATE, AND DAN BE HEARD, CONFINE TO HOURS MANAMED BY THE LOCAL JURISDICTION AND PROPERTY OWNER OR OWNERS SECRIFICATE.

SECRIFICATE

THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A PAITING OF NOT LESS THAN 2-A OR 2 ABS WITHIN 75T OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.

THE CONTRACTOR IS RESPONSIBLE FOR MANTANNO A NET AND ORDERLY SITE, YARD AND GROUNDS, REMOVE AND DISPOSE, LEGALLY OFF SITE, ALL RUBBISH, WASTE MANTENAS, LITTER, AND ALL PORBEIN SUSSIANASES. CHARLES, STAMES AND OTHER FOREIGN FOR ANGE AND ALL PORBEIN COMPATION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOUS AND FAILED SERVICE, PROBLET COMPATION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOUS AND FAILED SERVICES, AND FAILED AND FAILE PROPERTY SERVICES, CONTROL TOUS AND FAILED SERVICES, MANTENAS AND FAILED SHAPPING AND FAILE FROM DESIRES ON A DAY SHAPE.

THE SITE ANDIOR BUILDING SECURITY SHALL BE MAINTANED AT ALL TIMES DURING CONSTRUCTION IN GROER TO PRECIDIT UMUTHODIZED PERSONS FROM ENTERING THE PRECIDENS EXSTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTRACTIORS RESPONSIBILITY AT ALL TIMES DURING CONSTRUCTION.

THE CONTRACTOR SHALL TAKE ALL MEASINES NECESSARY TO MANTAIN POLLUTION CONTROL, COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO EMPROMENTAL PROTECTION, AND PROMPTLY REMOVE ALL DEBYSS AND ACCUMULATION OF MATERIALS RESULTING FROM THE WORK. ; THE TENANTS INGRESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION

GORBAL CONTRACTOR IS DOLE Y REPONSIBLE OR SCORE (BAURD ROUTE). EXPORT, AND EXPORT, AND EXPORT AND EXECUTE OF THE EXISTING STRUCTURE (BAURDAL FRANCE) OF THE EXISTING STRUCTURE AND EXAMINATE THE RECIPIED OF THE EXISTING STRUCTURE AND EXAMINATE OF PROMINGES OF A RECIPIED STRUCTURE FROM EXISTING THE PROMING STRUCTURE FROM EXAMINATE STRUCTURE AND EXHIBIT STRUCTURE AND EXHIBIT STRUCTURE FROM EXAMINATE STRUCTURE FROM EXAMINATE STRUCTURE AND EXHIBIT STRUCTURE FROM EXAMINATE STRUCTURE FROM EXAMINATE

DEMOLITION AND EXISTING STRUCTURAL ALTERATION DEMOLITION SPECIFICS

LO NOT DRILL OR CUT EXISTING PLOOR JOSTS, BEANS, COLUMNS OR OTHER STRUCTURAL BLABENTS UNLESS SPECIFICALLY INDICATED. DRILL SLABS WHERE APPROVED. CODE DRILL OFFICIALLY REPENDED THE COMPONET SLAB. LINE DRILL FOR RECTAVOLUTA OPENINGS, MAYE OPENINGS OF PROPER SIZE FOR COMPONET, DUTIE, PRESS, AND OTHER TERMS PASSING THROUGH OPENINGS, MAYE ALL NEW HOLES OR OPENINGS WE/THER TIGHT AND/OR FRE SAFE AS RECLIFIED BY LOCAL BUILDING CODES & OPENINGS.

EXCEPT IN SPACE WERE NO WORK UNDER THIS CONTRACT IS REQUIRED, ENCLOSE EXISTNE AND NEW CONDUITS, DUCTS, PIPES, AND SIMILAR ITEMS IN FURBING WHERE SLOCK ITEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT FURBING IS NOTICATED. WHERE CUTTING OF EXISTING SUPFACES OR REMOVAL OF EXISTING FINISHES IS REDURED TO PEFFORM THE WORK UNDER THIS CONTRACT AND A NEW FINISH IS NOT INCIDENTED, FILL RESULTING OPENINGS AND PATCH THE SUPFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJACENT EXISTING SURFACES.

REPAR, PATCH, FINSH ANDICK REFNISH AS AFPLICABLE TO MATCH ADLACENT EXISTING FINISHES. ANY EXISTING SURFACES DAMAGED OR NEW PROPOSED SURFACES DAMAGED DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT. REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING COLD GALVANIZATION.

1 CLEARING AND GRUBBING

THE CONTRACTOR SHALL PROTECT DXSTING TRESS, VEGETATION, LANDSCAPING, MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVIL WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES. CLEAING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MAINIAM, ONLY TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMOVED ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION UNIT SHALL BE REMOVED ON REPLACED AT THE CONTRACTOR'S DEPONSE.

TRIM EXISTING THEES AND VEGETATION AS RECOMMENDED BY THE MEDIAST FOR PROTECTION DURING CONSTRUCTION. CLEAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES REQUIRED FOR THE SITE IMPROVEMENT.

PROTECT TEMPORARILY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONIMENTS MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.

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PROVIDE TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL

REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS

.AL SUTABLE BORROW MATERIAL FOR BACK FILL OF THE STIE SMALL BE NCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUTABLE MATERIAL SMALL BE DISPOSED OF OFF-SITE AT A LOCATION APPROPED BY GOOD RENNAL AGENCES PROR TO DISPOSAL.

BROKEN PAYELSHAT, EXCESS GEGLETS THAT PREEE (IN LOCKES IN DAMETER, ROOTS AND OTHER DEBRIS SMALL NOT BE USED IN BACKFILL. NO MATERIAL SMALL BE LEFT IN THE PAULD RIGHT-OF-MAY ONCE MORK HAS BEEN COMPLETED. DICHATED MATERIAL SHALL BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN A MANNER SUCH THAT INTERFERINGE WITH AND OSSTRUCTION TO VEHICLIAR AND PEDESTINAN TRAFFIC IS MINIMIZED.

PRIOR TO BACKFILLING, THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION IF REQUIRED AND ALLOW ADEQUATE TIME FOR INSPECTION BUCRILING SWILL OCUM ON THE SWEE DAY AS THE EXCHANGON. IF THIS IS NOT POSSIBLE DIE TO THE COMPLEX WAILINE OF THE WORK, EMERICIAN'S, ON HAPPERPAULE CONDITIONS, THE COMPACTE SWALL IMMEDIATELY NOTIFY THE LOCAL JURGIDICTIONS) AND TAKE APPROPRIATE IMPUSESS TO PROTECT PUBLIC SWEETY. AND PRAVER TRUCKLING LINE LINES OF THE LOCAL JURGIDICTIONS) AND TAKE APPROPRIATE IMPUSESS TO PROTECT PUBLIC SWEETY.

UNDER NO CRICURSTANCES SHALL AN OPEN EXCAVATION BE LEFT UNATTENGED OVERNIGHT, UNLESS PROPERLY BARRICAGED IN A MANNER WEETING WITH APPROVAL FROM LOCAL LIPROSCITION(S).

ALI PANEHRYT BAORTIL MATERAL SHALL BE PROCESSED GRAVEL. PANEHRYT BAORTIL SHALL MEIT THE SILECTED PL.STANDARDS AS SHAM BELDAL UNESS STRICTER REQUIREMENTS APEE INFOSED. BY THE ORMERS REPRESSYMTAE, GEOTECHNICAL REPORT RECOMBEDIATIONS, OR THE REQUIREMENTS OF THE LOCAL JURISDICTION. WICHCHERIS BADIES TRANSECH.

3 INCH 3 INCH 1-1/2 INCH 3/4 INCH NO. 4

I, THE LISE OF CONTRIBLIED DESIGN FILL (COP) MAY BE MANDATED BY THE OWNERS REPRESENTATION, GOTTEMANCH, REPORT RECOMMENDATION, OR BY THE LOCAL AMERISATION, BY COMPRILED DESIGN FILL SEMANTICE, TO SHALL COMPANY OF THE REQUIREDITYS SPECIFED BY OWNERS REPRESENTATINE, GESTEONICH, REPORT RECOMMENDATIONS, ON THE REQUIREMENTS OF THE LOCAL LINKSDICTION, WHOLEVER IS MORE STRINGERT.

THE CDF (NGREDIENTS SHALL COMPLY WITH THE FOLLOWING:

PORTLANT CEMENT AASHTO M.B5

FLY ASH FINE AGGREGATE AASHTO M.292, CLASS F AASHTO M.4.02.02

AASHTO M.4.02.05

THE CDF MUST MEET THE FOLLOWING REQUIREMENTS:

COMPRESSIVE STRENGTH AT 28 DAYS: 20-80 PSI (210-550kPs)

COMPRESSIVE STRENGTH AT 80 DAYS: 100 PSI MAX. (700 kPs MAX.)

10-12 INCHES (250-300 MM)

8. THE PROJECT INCLIDES.
• DECANATION, TRENCHAG, FILING, COMPACTING AND GRADING FOR STRUCTURES.
• ECCANATION, TRENCH SOR SUB-BASE, DRAWGE FILL BACK FILL, GRAVEL FOR SLASS, PAVEMENT AND IMPROVEMENTS
• ROCK EXCANATION WITHOUT BLASTING.

10. FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMUM THICKNESS OF 8 INCHES. SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.

11. THE COMPACTING UNDER STRUCTURES, BUILDING SLASS, STEPS, PAYEMENT AND WALKWAYS SHALL BE 55% MAXIMAIM DENSITY, ASTM D-1557. TESTED IN EACH OF THE COMPACTING LYCES AT EACH COMPACTING STEP, CR AT LEAST IN EACH 100 CLI, YARDS OF MATERIAL YOULDRE.

7.3. FA ALVERS OF COMPACTE, CORRESTED CRAVITE PAYERS, OR OTHER SUPPORTING MATERIAL EXSTS, CONTRACTOR SHALL INSTALL CONCRETE TO MATCH THE EXISTING DEPTH PRODUCTO INSTALLATION OF TEMPORARY PAYEMENT. 13, WHEN BACKFILL CANNOT EFFECTNELY BE COMPACTED TO 55% MAXIMUM DENSITY DUE TO MULTIPLE CONDUCTS, DUCTS OR PIPES, CONTROLLED DENSITY FILL (CID) MAY BE REQUIRED.

THE COMPACTING UNDER LAWNS OR UNPAVED AREAS SHALL BE 85% MAXIMUM DENSITY, ASTM 01557.

15. GRAVEL SHALL BE PLACED UP TO THREE (2) HOHES BELOW GRADE OF EXISTING ASPIALT, TO ALLOW ROOM FOR THREE (3) NOHES OF COMPACTED HAN TEMPORARY SURFACE.

CONCRETE SIDEWALKS SHALL BE PLACED ON A BED OF SIX (6) INCHES OF COMPACTED GRAVEL

22. THE USE OF EXPLOSIVES IS PROHIBITED ON SITE.

TI, CHER STONES MUST BE PLACED ON NEED OF SKOJN PHOESS OF CHURSED STONE.

19. THE COMPANIED LYNCHED ON NEED OF SKOJN PHOESS OF CHURSED STONE.

19. THE COMPANIED LYNCH SKAML ANT DEVELOPED IN OFFICE.

19. THE STONES MUST BE PLACED ON NEED OF SKOJN PHOESS OF CHURSED STONE.

21. WASTED WORTHOUS AND LAY REQUIRED SHEETING AND SHOORING SHAML BE CONEIN N. ACCORDANCE WITH CIGAR REGULATIONS FOR CONSTRUCTION.

21. WASTED WORTHOUS AND LAY REQUIRED SHEETING AND SHOORING SHAWL BECOTED AT THE CONTRACT WITH CIGAR CONTRACTION SHOORING THE ACCORDANCE WITH CIGAR CONTRACT ON THE CONTRACT

25, DICK PLL SMLL USE APROVED MITEMALS CONSSTING OF LOWA, SMEDT CLAY, SMED, GRAVEL, OR SOFT SHALE MO SMALL BE FREE FROM CLOSS OF STONES ORSES? Y.

36, AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTITUTION BELOW SHADE MO BEFORE SHOPFLING, ALL EXCLANITIONS SHALL BE CLEM OF UNSTITUDED.

MATERIAL SCHAFF, SEEEET, TRIUN, MOOD, DEERST, 19944, AND MY FOOEDS MATERIAL. ALL EXCANATION ON WHICH CONCRETE IS TO BE FLACED SHALL BE SUBSTANTAL HORZONTAL, UNDISTURBED AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WHEN SHALL BE PROVIDED IF REQUIRED. AY DOWNTON OVER THE REQUIRED DETH SWALL BE FILED WITH OTHER MECHANICALLY COMPACTED GRANILAR MATERIAL OR CONDECTE OF THE SAME QUALITY RECYPTED FOR THE FOUNDATION, CRUSHED STONE MAY BE USED TO STABLUZE THE BOTTOM OF THE EXCOUNTION. STONE, IF USED, SWAL NOT BE USED AS COMPLING OWCRETE THOMASS.

I. THE CONTRACTOR SHALL PROTECT ALL STORM DRAIN AND SEWER APPARTEMANCES ADJACENT TO AND WITHIN THE CONSTRUCTION SITE. THE PROTECTION USED SHALL PROTECTION DESIGNS SCHOOL STORMERS STORMED, AND RESERVED STORMED SHALL PROTECTION DESIGNS SCHOOL SOFT, AND DRAIN OR SEWER POLLTRAITS SHALL NOT BE ALLOWED TO ACCUMULATE IN THE STORM DRAIN OR SEWER CONFERENCE STORME.

THE CONTRACTOR IS RESPONSIBLE FOR MUNTAWING POSITIVE DIMMAGE AMAY FROM BUILDING OF EQUIPMENT ON THE SITE AT JULTIMES, SUT AND REGION CONTROL. SHALL REMANDAND DAY THE DOMASTREAM SIDE OF THE SITE AT JULTIMES, STORM WATER FOOD SHALL NOT BE IMPEDED. ANY DAMAGE TO ADJUGENT PROPERTIES WILL RECOGNISED DAY THE STEED OF THE SITE AT JULTIMES, STORM WATER FOOD SHALL NOT BE IMPEDED. ANY DAMAGE TO ADJUGENT PROPERTIES WILL RECOGNISED DAY THE STEED OF THE ST

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DENATERING AND THE MANTENANCE OF SURFACE DRAWINGE DURING THE COURSE OF WORK.

ANY DRAIN, FIELD TILE, OR DRAWINGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMENTS.

EROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWINGS WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS CONTRACTOR SHALL REPORDE ALL BOSSON AND SERMENTATION CONTROL MESAURES AS REQUIRED BY LOCAL CODES AND ORDINANCES TO PROTECT EMEMANDENTS FROM SOIL LOSS AND THE REPORT ACCUMALATION OF SOIL AND SILT IN STEWARS AND DRAINNEE PATHS LEAVING THE CONSTRUCTION AFEA. THIS MAY INCLUDE SUCH MESAURES AS SILT PROPE, STRAW WILLES, SEMEMENT DURGERS, AND CHECK DANS

DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES

ACI 201 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
 ACI 204 - GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE

ACI 309 - GUIDE FOR CONSOLIDATION OF CONCRETE
ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORGED CONCRETE

ACI 544.1R - FIBER REINFORCED CONCRETE (IF SPECIFIED)
 ACI 544.2R - MEASUREMENT OF PROPERTIES OF FIBER REINFORCED CONCRETE (IF SPECIFIED)

MX DESIGN SHALL BE APPROVED BY THE DIMMERS REPRESENTATIVE ANDIOR REQUIREDERTS OF THE LOCAL JURISOPTION PRIOR TO POLITION CONCRETE SHALL BEEF SHALL BEEF THE FOLLOWING REQUIREDERTS BY, ARE STRUMED (HT. 15M) WITH A MANIMA OF HET SLAMP, AND HAKE A MANIMA DE DAY COMPRESSIVE OFFICERS OF SHALL BE APPROVED BY THE STRUMEN STRUMEN SHALL BE APPROVED BY THE OWNERS REPRESENTED HOW THE APPROVED THE MAIN AND ACCORDANCE STRUMENT OF THE OWNERS OF THE STRUMENT SHALL BE APPROVED BY THE OWNERS AND THE APPROVED THE APPROVED BY THE OWNERS OF THE OWNE

, MAXIMUM AGGREGATE SIZE SHALL BE 1" THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT: ASTM C150, TYPE 11 ASTM A185 & A615

NORMAL WEIGHT AGGREGATE:

ADMOTURES:
 NON - CHLORIDE CONTAINING
 FEBROUS REINFORCEMENT:
 ASTM C1116 (IF SPECIFIED)
 REINFORCING DEFALLS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.

RENFORCING STEEL SHALL CONFORM TO ASTM A 815, GRADE 60, DEFORMED UNLESS OTHERWISE NOTED, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED WIRE FABRIC UNLESS OTHERWISE NOTED. SPICICES SHALL BE CLASS TO AND ALL HOOKS SHALL BE STANDARD, U.N.O.

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CROWN

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GENERAL NOTES

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. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR HEINFORGING STEEL UNLESS SHOWN OTHERWISE ON DRAWNIGS CONCRETE CAST AGAINST EARTH: 3 IN

CONCRETE EXPOSED TO EARTH OR WEATHER:

#5 AND SMALLER AND WAYE: 1 1/4 IN

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

. INSTALLATION OF CONCRETE EXPANSIONMEDGE ANCHORS SHALL BE PER MANUFACTURET'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. MAFER OF 1/3 IN SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, U.N.O, IN ACCORDANCE WITH ACI 301 SECTION 4/2/4

. CURING COMPOUNDS SHALL COMPORATIO ASTIA G-308. - ADMICTURE SHALL CONFORM TO THE APPROPRIATE ASTIA STANDATO AS REFERENCED IN ADASM. - COMPRETE FOR REPLACEMENT COMPORTE INDEMIALS OR DRIVENMYS SHALL BE PLACED TO A THOOMESS NOT LESS THAN 6", AND NOT MORE THAN THE THIOMESS OF THE ADJACEMY CONCRETE SIDENMALYOR DRIVENMY. . ALL DOWELS, ANCHOR BOLTS, EMBEDMENT STEEL, ELECTRICAL CONDUTTS, PIPE SLEEVES, GROLINDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN-PLACE BEFORE START OF CONCRETE PLACEMENT. . DO NOT WELD OR TACKWELD REINFORCING STEEL.

LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER, PLACE REINFORGEMENT CONTINUOUSLY THROUGH DINT.

I. II. PLACE CONDETTE IN A INVERDIM MANKER TO PREPERT THE CROMATION OF COLD JOINTS AND OTHER PLANES OF WEAVNESS. VIBRATE THE CONCRETE TO FILLY BMED
REM-FROMENCO DO NOTIFICE (MANCHOS TO MANASPORT CONSPETE THOUGH CHEFTE SH FORMATION)
19. DO NOTIFIA-CE CONCRETE IN PONDING WATER, ICE, OR ON PROZEM GROUND.
30. FOR COLD INFORMER AND OTH MEATHER CONCRETE PALADEBIET, COMPOSIN TO APPLICABLE ALD CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING
CHICAGO CAUCHA, MALTE, TE, CASALLA FOR EURSDA. PROTECT FIESDS (CONCRETE FROM MEATHER FOR Y DAYS MANAMUM.) 17. REINFORCEMENT SHALL BE COLD BENT WHEN BENDING IS REQUIRED

, FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLUDE 1 % LBS. OF FIBER PER CUBIC YARD.

WASTE CEMENT FROM CLEANING OF CONCRETE DELIVERY TRUCKS SHALL NOT BE ALLOWED TO ENTER THE STORM DRAIN OR SEWER SYSTEM

ALL WORK SWALL COMPLY WITH OSMA AND STATE SAFETY REQUIREMENTS, PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTIONS AND UTILITIES SWALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.

, PRIOR TO INITIATING EARTHWORK OPERATIONS, GROUND WATER AND SURFACE WATER CONTROL MEASURES NEED TO BE TAKEN

THE CONTRACTOR SHALL PROVIDE ADEQUATE SLOPING, SHORING, AND BRACING FOR ALL EXCAVATION TO PROTECT ADJACENT STRUCTURES AND COMPLY WITH LOCAL CODES, ORDINANCES, OSHA AND ANSI REGUIREMENTS.

PROR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE, THE SITE SHALL BE STRIPPED OF ALL SUPFACE VEGETATION, TOP SOIL, AND DROWNE MATERIAL; ALL WET, SOFY, LOOSE, ROZZEA, OR OTHERWISE LINDESTRABLE SOIL SHALL BE REMOVED.

THE DOOSED SIG ROUE SHALL BE PROPED-ROLED WITH MEDIAN WEIGHT ROLLERS OR OTHER APPROVED EQUIPMENT TO DETENANC IF ANY POCKETS OF SOFT, COMPRESSIBLE SOIL DISTIS BELOW THE DOPOSED SUB GRADE, WHEIDERES SUCH MATERIAL IS ENCOMPRESS. THE AREA SHALL BE UNDERCUT TO SUTFAILE SOIL, AS DECIDED BY A CAULIFIED DEROKEER. THE CONTRACTOR IS TO PREVENT SURFACE WATER FROM ENTERING EXCAVATIONS, PUDDLE, AND FROM FLOODING ADJACENT PROPERTIES DURING CONSTRUCTION, CONTRACTOR IS ALSO RESPONSIBLE FOR PREVENTING SOFTENING OF THE FOUNDATION SOILS PROR TO PLACING CONCRETE.

AL STRUCTURAL FILE EXTENSING FROM SUTFABLE SUB GRADE TO BOTTOM OF FOUNDATIONS OR FLOOR SLABS SHALL CONSIST OF GRANILAR MATERIAL, AND 3% TO 10% BY GRAVEMENT ASSINGTHE U.S. STD A200 SIGHE SUZE, COMPACTED TO 56% OF THE MODIFIED PROCTOR MAXIMAN ORY DENSITY AS DETERMINED BY ASTIN CHST IN LAYERS NOT EXCEDENCE.

THE SOIL PREPARATION, NICLUDING FOOTING EXCAVATION, FILL, BACK FILL, AND COMPACTING SHALL BE DONE FOLLOWING THE RECOMMENDATION CONTAINED IN

по смужете мужеми смужеми от тей, геровария об выполнять выправления по смужете мужем смужем смужем

IZ MANUM CONCERT COMER FOR RENFORCEMENT SMALL BE 3 NOHES (RAMA) UNLESS OTHERWISE NOTED, APPROVED SPACEDS SMALL BE USED TO NISURE A 5" (RAMA) UNLESS OTHERWISE NOTED, APPROVED SPACEDS SMALL BE USED TO NISURE A 5" (RAMA) UNDERSO REPORTED COMER THE OFFICE OF THE TOP OF FOLKMATION TO BADS OF REMFORCEMENT SMALL NOT EXCEED 3 INCHES (RAMA) NOH BE LESS THAN 2 NOHES (SIMA).

14. FOOTHIG IS DESIGNED TO BEAG ON EXISTING INTERALLY OCCUPRING, INDEPONSIVE SOLIS, OR BIOINSEED FILL APPRIE OF SMALL SUST, NINGE 2000 PS.

E SOL PROPERTIES WEEK NOT AMALAÜL, THE FOANDATION DESIGN IMS BEEN ERPELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL DIGNEESING PROPADES AND PRACTICES WITHIN THE LIMITS OF THE SUBSUPFACE DATA PRESCRIBED BY GOVERNING CODE. FOLHOLITION DESIGN IS BASED ON SOIL PARAMETERS FROM THE ABOVE REPREMENDE BULDING CODE, BY CLUCKIES.

ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
 ALLOWABLE SLIDING RESISTANCE = 150 PSF/FT.

A FOUNDATION SHALL BE FORMED WITH PLYMOOD OR METAL PANELS SUFFICIENT FOR STRUCTURAL AND VISUAL REQUIREMENTS. FORMS SHALL BE STRUCTURALLY ADEQUATE TO WITHSTAND LINCURED CONCRETE FRESSURE FORMS SHALL BE REMOVED ONCE CONCRETE HAS ATTAINED 75% OF ITS LITMATE STRENGTH.

17. THE CONTRACTOR SHALL EXPECT SUBMERGED DRILLING CONDITIONS FOR DEEP FOUNDATION CONSTRUCTION SUCH AS DRILLED PIERS OR DEADMAN ANCHORS AND SHALL MOBILIZE ACCORDINGLY. 8. FOLNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGE/BULE AND EXPERIENCED WITHIN THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.

9, FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WALL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS, AND ASSUMED DESIGN PHARMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.

I. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORM WORK, REINFORCING BARS, FORM TIES, OR OTHER OBSTRUCTIONS, UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WAITER. . CONCRETE SHALL BE PLACED IN A MANKER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WAICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.

22. FOUNDATION DESIGN ASSUMES CONTINUOUS CONCRETE PLACEMENT WITHOUT CONSTRUCTION JOINTS

23, TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH, AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL, WITH A SCONTOHED FINISH, 24, EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/4/2/4" (18mm x 18mm) MINIMUN

IS, INTIMATE CONTACT BETWEEN CONCRETE AND SOIL WALLS OF PAD IS ESSENTIAL FOR ADEQUATE FOUNDATION PERFORMANCE. THE CONCRETE SHOULD BE APPROPRIATELY VIBRATED DURING CONSTRUCTION.

8, THE CONTRACTOR MORT HAVE TO BUILD THE FOUNDMON WITH SUBMERGED CONDITIONS AND SWILL MOBILIZE ACCORDINGLY. 7. ALL DISTRIA GROUNDING RINGS AND DONCES EXPOSED BY EXCHANTON OR REGRADING SWILL BE REPLACED AND PROPERLY CONNECTED TO EXISTING SYSTEM PER NEC OR LOCAL DISTRIBUTION RECONSIDERATION.

CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (78 MM) NOR BE LESS THAN 2 INCHES (51 MM) ZORILED SAMET.

FOR PROPER SHALL RE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CAGES ARE
UTILIZED, BRACING SHALL RE ADECLATE TO RESIST FORCES OCCLURING FROM THE FLOWING CONCRETE DURING CASING EXTRACTION.

SPACERS SHALL BE ATTACHED INTERNITENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.

FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT OF THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.

5. FOR FOUNDATION AND ANCHOR TOLERANGES REFER TO TOWER MANUFACTURER DRAWINGS FOR SPECIFIC JOB NUMBER AND DATE IN ABSENCE OF MORE SPECIFIC INFORMATION, THE CONTRACTOR MAY USE THE FOLLOWING:

-CONCRETE CUT OFF ELAVIDOR: 4-59
A FOUNDATION DESIGN ASSULUES CORING, FOUNDATION DESIGN ASSULUES AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT RELIGIBLY O'STUNDED UPON CASING REMOVAL. POLE POLINDING MAT DAMETER ANX)

LOCATOR FLAME, 15% OF SMAT LAKEN NOT TO EXCEED 125% OF SMAT DAMETER OR 127

LOCATOR FLAME, 15% OF SMAT LAKEN NOT TO EXCEED 125% OF SMAT DAMETER OR 127

LOCATOR LAG OF SMAT LAKEN NOT BE LET!. IN PLACE, EXCHANGE AND SMAT DAMETER OR 127

LOCATOR LAG OF SMAT DAMETER ANX)

FORMENDE FLUID, IF USED, SMALL PER ENLIN'S DISPLACED BY CONCRETE AND SMALL NOT BE RETEMBETAL TO CONCRETE OR SURROLMONG SOL. CONTAMINATED CONCRETE.

SMALLER ENDO/CET FROM CONCRETE AND SOLLAWLES OF DRILLED SWALT IS ESSENTIAL FOR ADEQUATE FOLHOUTION PERFORMANCE, THE CONCRETE SHOULD BE
APPROPRIATELY MARRIED DEARM CONCRETEL AND SOLLAWLES OF DRILLED SWAT IS ESSENTIAL FOR ADEQUATE FOLHOUTION PERFORMANCE, THE CONCRETE SHOULD BE
APPROPRIATELY MARRIED DEARM CONSCRIPTICATION.

THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION TIGOLS, ETC, FOR THE INSTALLATION OF COMPLETE AND PROPERLY OPERATING SYSTEMS.

INSTALLATION SHALL COMPAY WITH ALL APPLICABLE LAWS AND ORDINANCES OF ALL AITHORITIES HANKE ARRESTIONS AND WITH ALL ASSOCIATION AND THE CODE REQUIREMENTS. INSTALLATION WILL ARSO COMPANY WITH THE LATEST EDITIONS OF ALL CODES AND STANDARDS OF THE ENTITIES LISTED HANCES FOR THE CODE REQUIREMENTS.

HADER ITEMANT, PARAGRAPH I, THE MOST STRANGENT CODE WILL APPLY IN THE CASE OF DECREMANCES FOR THE RECORD REQUIREMENTS.

3, THE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES.

7. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, AS NECESSARY.

AD ONOT NEBRUFF CORRISE SERVICES WITHOUT WORTEN PERMISSION OF THE OWNER OF THAT SCHOOLE AND WRITTEN PERMISSION OF THIS NETALLATIONS CARRER. A CHAMSES, NO JUDITIONAL COSTS FOR LABOR OR MATISSAUS WILL BE ALLOWED FOR CHAMSES OR MODIFICATIONS MADE UNLESS PRICH WRITTEN APPROVAL IS OBTAINED FROM THE APCHITETT, ENGREED OR OWNER, IN THE FORM OF A CHAMSE GREEN.

10. DRAWINGS: ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED.

1. DISCREMANCES DISCREMANES ON TRESE PLAKS SPECIFICATIONS, ETC. MUST BE IMMEDATELY BROLIGHT TO THE ATTEMPON OF THE ENGINEER.
12. SURPER AND CONDITIONS: VISIT THE LOSS STEEP PAICH TO SUBMITTING BD, AND ANCE A SURPEY OF DISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED.
NO OTHER ALLOWANCES WILL BE OFFOR PICE THE STIE CONDITIONS.

), COOPERATOR COOPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE ARRANCE AND DECLITE WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRADES CONCERNED.

), PROCURBUSY VEHIFICATION, PROVIDE AN ITEMIZED CERTIFICATION TO THE PROJECT MANAGES THAT EQUIPMENT AND RELATED HARDWARE HAVE BEEN ORDERED WITHIN 24 HOURS OF NOTICE TO PROCEED. . INSTALLATION SHALL COMPLY SPECIFICALLY WITH ENGINEERING STANDARDS MANUAL, ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORK.

THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION TAKES.

ACCIDENCE DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER ACCIDENANCE WITH THE CONDITIONS OF THE CONTRACT. Z INSPECTIONS REQUIRED. AS PER THE LAWS AND REGULATIONS OF THE LOCAL ANDIOR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE. A INSPECTIONS AGENCY: APPROVED BY THE LOCAL ANDIOR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE. THIS CONTRACT IN

I, CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CORTICATES TO THE CARRIER AND UTILITY.

AS INVESTED, AND SIPPORTS. ASTREES AND INFORMES SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INFERENT PROPERTY AND SHALL BE HOT DEPORTS, FASTENEES OR INFERENCE PROPERTY AND SHALL BE HOT DEPORTS, CLAMPS, U-O-MANEL, THEADER PRODUCT FOR OUTDOOR USE SHALL BE HOT DEPORTS CLAMPS, U-O-MANEL, THEADER PRODUCT FOR OUTDOOR USE SHALL BE HOT DEPORTS AND FASTENEES STATUSE.

2. THESE, HANGERS, STRAPES, RISES SUPPORTS, CLAMPS, U-O-MANEL, THEADER PRODUCT FOR A STRUCTURE LISES HANGERS, SUPPORTS AND FASTENEES STATUSE.

2. NETS, LANCERS, STRAPES, RASE SUPPORTS, AND SECURE ALL METSHAL AND EXCEPTIVE AND

, Strachtma, indusens do not cal callo ana strachtaa, indiser dazet as sectedally, approced the exciser. Assellaneous supports, provide any additional, structural, support steel bracets, angles, fastibers and imadiware as required to adequately support all excitence, anales, fastibers and imadiware as required to adequately.

. ONE-HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN % INCH.

A ENCLOSIFIESMEEMANS
A ENCORPESSAMENTAN
A ENCORPESSAMENTAN
A ENCORPESSAMENTAN
A ENCORPENSAMENTAN
A ENCORPENS

H<u>oles, sledne and ope</u>nings Beignli-Provide all holes, slednes and openings required for the completion of work and restore all damaged suffaces to match sufrounding Transfer

PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WAFFOR PENETRATIONS REQUIRING A FIRE RATED SEAL, REFER TO CUTTING AND PATCHING NOTES UNDER SECTION 1 - GENERAL CHANTE PRETRATIONS SZE COREDILED HOLES SO THA AN ANILAR SPACE OF NOTLESS THAY KURCH AND NOT MORE THAY I NEW IS LET AROUND THE CONSULT, PRE ETC. WHEN ORDINGS ARE CUT IN LIEU OF CORE-SPALED, PROVIDE SEEME IN ROCHA ORDING, SZE SLEEDES TO PROVIDE AN ANNUAR SPACE OF NOT LESS THAY IN INCH AND NOT MARE THAY I NCH AND NOT THE CONSULT, PRE ETC. PARTO ANDONO SLEEME TO MATTO SURPROLINGING SURFACE. WATER INTRUSION, PROVIDE FIREPROOF MATERIALS

GENERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IF ANY ROOFTOP WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED ROOFING CONTRACTOR TO PREJENT VOICING ANY EXISTING ROOFING WARRANTIES, ANY DAMAGE TO THE EXISTING ROOFING MEMBRANE SHALL BE REPARED IMMEDIATELY TO ANOID MOISTURE INTRUSION INTO THE BUILDING SHELL

REPAIRS, REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUITING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED

PLANS PREPARED FOR: CROWN

21 Oxford Rd Mansfield, MA 02048 www.piketolecom.org 1-508-337-7600

PURPOSES ONLY FOR PERMITTING

ENGINEERING SEAL:

THESE DOCUMENTS ARE CONFIDENTIAL
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REDISTRIBUTED WITHOUT THE EXPRESS
WRITTEN CONSENT OF CROWN CASTLE.

7	REVISIONS:	1	
REV	DESCRIPTION	뫅	DATE
0	ORIGINAL	ъ	GL 04/21/21
1	UPDATE EQUIPMENT	ഉ	GL 05/07/21

HSQ-020 SCU# 464625

SITE CASCADE: -

- SITE ADDRESS:

89 STORY ST

CAMBRIDGE, MA 02138

POLE# N/A

GENERAL NOTES

SHEET DESCRIPTION: -

EN SOCIO-MONTHY COPPER WITH TYPE XHAM-2 INSULATION, 600 VOLT, COLOR CODED, USE SOLD CONDUCTIVES FOR WIRE UP TO AND INFULDING NO. 8 AND, STRANSED CONDUCTIONS FOR WIRE LAKERE THAN NO. 8 WIG. USE PRESIDENTE INSULATED TWISTON CONNECTIONS FOR MO. TO AND AND SMALLEN, SOLDERLESS MECHANICAL TERMANL, LUSS FOR NO AND AND AND AND LAKESPA, ALMINAN CONDUCTIONS SHALL FOR EVED. 2 NO BX, MC OR ROMEX CABLE SHALL BE PERMITTED.

1 SAH BIO OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SWALL BE LIBERLED WITH COLDINCOSED NEULATION OR ELECTRICAL TAPE (3M BRAND X NOV PACHE ELECTRICAL TAPE WITH UV PROTECTION, OR EDUAL). THE DEFINE CATION METHOD SWALL CONCORD WITH NEC AND OSMA AND MATCH EXISTING INBLATION REQUIREMENTS. I. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL REMOVE SHARP EDGES.

S, ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE TAKING INTO ACCOUNT THE USE OF COPPER CONDUCTORS

.7 ELECTRICAL SERVICE

GENERAL: COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.

2 SHORT CRICUIT RATHOSS PROVIDE EQUIPMENT WITH HIGHER FAULT CUPRENT RATHOSS AS NEEDED TO MATCH UTILITY COMPANY ANALABLE FAULT CURRENT.
3.CHORRACTIONE TO VERIEV UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10.000 AD,
4. THE COMPANCIDA IS RESPONSIBLE FOR MAGNO ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE NEW SERVICE AND PAYRIG ALL
ASSOCIATED FEES. S DENTRICATION (DENTRY SERVICE DISCONNECTION MEANS WITH PERMANENT MANEFILATE. 8, THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES 18 FOR CONCEPTIVAL USE ONLY, THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.

LOCATION NO ARRANGEMENTS, DRAWNASS INDICATE DIAGRAMANTICALLY THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLETS, ETC., AND ARE NOT TO BE SCALED, PROPER JUDGOLERY MUST BE EXERCISED IN THE EXECUTION TO ENSURE THE BEST POSSIBLE INSTITULATION. YMEL AND DISTRIBUTION BOARD DESTIFICATION. SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE IDENTIFED WITH ENGRAVED. WHTE ON BLACK LAWRATED, RIGID PHENOLIC HAMBUATES WITH X INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CHEMET.

2 POWER CONDUCTORS CONTRACTOR SWALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH AND ILOU CONTRACT, LIAD RECURSOR WALL BET TAKEN AND RECORDED TO MANTAIN A DALANCED LIAD AT THE PRIMARY SOURCE RECORDES SAME BE REPORTED TO THE WARREST REPRESENTANCE. <u>OLOPOSITI IESTNO AND ALUSTINO</u> CONRECTIONNETA-COMENT, ATTRI TECNIG BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFCIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNAULE TO DEPETORAL AT DESIGN ON PAYED CAPACITY.

19 PACEMY SYSTEMSCHOULD WILL BE SOMEDLE AP PIC CONDUTT OR BETTER AS REQUIRED BY LOCAL JURISDICTION ANDOR UTILITY UNDERGROUND PAC CONDUTT SHALL INCREASON OF CONFIDENCE OF

GRS CONDUTTS, WHEN SPECIFED, SWILL MEET UL4 FOR GALUNAZED STEEL ALL FITTINGS SHALL BE SUTPUBLE FOR USE HTM THEREASED RIGHD CONDUTT. BLEETREALL BETALLED THENGE BEAT DIS REICH, MANETALLE CONDUTT (REICH PAC SCHEDLLE 40, OR RIGHD PAC SCHEDLLE SE FOR LICOATIONS SUBJECT TO PHYSICAL DAMACD SHALL BE LIGHT FOR EXPOSED MOORS LOCATIONS.

, ELECTRICAL NETALLO TUBINO (BAT) OR RIGID NONNETALLIO CONDUIT (RIGID PIC SCHEDILE 40) SHALL BE USED FOR CONCENED NODOR LOCATIONS. S. LICUID-TIGHT PLEXIBLE NETALLIC CONDUIT (LICUID-TITE F.EDQ SHALL BE USED NODORS NO OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. B, PLIO AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE THAD SEPARATE PLILL STRINGS - ZOIL B. TEST POLYETHYLENE CORD.

, ALL CONDUIT BENDS SHALL BE MINIMUM OF 24-INCH PADIUS.

ALL METALLIC RACEWAYS SHALL BE GROUNDED PER NEC.

THE DONTHACTOR SHALL FIED VERBYT THE BEST AND LEAST DISRUPTIVE ROUTING OF CONDUITS, CABLE TRAYS AND DUCTS, CONDUIT ROUTING IS SHOWN AS A GLIDE ONLY. ACTUAL CONDUIT PLACEMENT IS TO BE DONE IN A PROFESSIONAL MANNER.

A IN BIOLOGO NEW CHITCH UNDERGROUND ELECTRIC, TELEPHONE AND DITHER SERVICES IN THE VIXAMIT OF OTHER UNDERGROUND SERVICES AND ELECTRICATION TO ACCUSE THE CONTRACTION SHALL TAKE ALL RECESSANE PRECUMINGS TO AVOID SERVICES DESIGNIBLY TO THESE FAULTIES. HE CONTRACTION SHALL AND CONTRACT IS AVOID SERVICES AND TELEPHONE, AND TELEPHONE, AND TELEPHONE, AND TELEPHONE, AND TELEPHONE, AND TELEPHONE, AND TELEPHONE AND

OF 36". ALL HOW VOLTAGE CONDUT (8007 OR LESS) SHALL HAVE A MINIMUM BURIAL DEPTH OF 26". ALL HIGH VOLTAGE CONDUT (8007 OR MORE) SHALL HAVE A MINIMUM BURIAL DEPTH OF 36". .ALL TREMONING AND EXCAVATION WITHIN DXISTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS, ANY OTHER METHODS OF DISCRICK MUST FROST BE APPROVED BY THE CONSTRUCTION MANAGER. PRIOR TO EXCHAPION, A UTILITY MARK OUT SHALL BE DONE TO LOCATE DISTING INNOFFICENDING THATES, ALL INNOFFICENDING UTILITIES MUST BE LOCATED AND MARKED OUT PRIOR TO ANY EXCHAPION WORK IEENG PERFORMED, PHOTOS SHALL BE TAKEN OF ALL INNOFFICENDING WORK AND GAZEN TO THE OWNERS REPRESENTANTE OURWAY THE STEEPS MONOTORY WORK IEENG PERFORMED, PHOTOS SHALL BE TAKEN OF ALL INNOFFICENDING WORK AND GAZEN TO THE OWNERS REPRESENTANTE

LINDERGROUND CONDUTT SHALL BE ENCISED IN RENFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC, CONCRETE ENCISEMENT SHALL BE 3' MINIMUM ALL ARGUND AND BETWEEN CONDUTTS.

ALL BURIED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE CONDUIT FOR EASY IDENTIFICATION

P. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD ALC. RATING HIGHER THAN INCOMING EQUIPMENT ALC.

1. HE MANU CIRCUIT SHALL BE BRACED FOR STANDARD ALC. RATING HIGHER THAN INCOMING EQUIPMENT CO.

,ALL BECTRICAL COMPONENTS SHALL BE CLEARLY USBEED WITH ENGRAVED PLASTIC LABELS, ALL ECUIPMENT SHALL BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WINE CONFIGURATION, WITH CONFIGURATION, WITH CONFIGURATION, WITH CONFIGURATION AND CROUTE OR CAPACITY RATING AND BRANCH CIRCUIT D NUMBERS (LE PANELBOARD AND CROUTE DIS). THE CONTRACTOR SHALL PROVIDE AN ITENZED CENTRICATION TO THE CARRIES OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN X4-PRS. OF THE NOTICE TO PROCEED.

NONMETALLO RECEPTACIE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA 05 2, AND SE RATED NEMA 1 (OR SETTEN) INDOORS OR MEATHER-PROTECTED (NP OR SETTEN) OUTDOORS. METAL RECEPTAGLE, SMITCH AND DEVICE BOXES SHALL BE QALVANZED, BPOXY-COATED OR NON-CORRODING SHALL MEET OR EXCEED UL SIA AND NEWA OS 1, AND BE RATED NEWA 1 (OR BETTEN) INDOORS OR NEXTHER-PROTECTED (Nº OR BETTEN) OUTDOORS.

IN TRANSPITUDITAE SURES SURFISSION MOSS.
IN TRANSPITUDITAE OF POWER SWILLE INSTITUDITAE ALL DISTING FACILITIES THAT ARE MESSING MOS DEPUTES OR HAVE INSULTABLE THIS DEPUTES.
IT HAS DEPUTES FOR AND DEPUTE SWILLE INSTITUDITAE SHALL BE CONNECTED TO THE COMMEDICAL POWER SHOTT SIZE OF THE MANUAL TRANSPER SWITCH.
Z THE ARE POWER COMMAND MOST SAIRCE STORT SENTAL BE DEPUTE SHALL BE REPUTALD AT THE STRANDET SO THE SHALLTER OR AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTIONED AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTIONED AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTIONED AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTIONED AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTIONS OF A STRAND AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTIONS OF THE OPTION AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTION AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDITAE AND THE OPTION AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING ASSOCIATED AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING ASSOCIATED AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE TO THE STS CABINET FOR DUTDING AS CLOSE AS POSSIBLE FOR THE POSSIBLE

TO ESTABLISHED MATERIALSAD MITES

THE SERGOMENDATION SHALL VERRY THAT THE SYSTEM IS EFFECTIVELY GROUNDED, METS NEC ARTICLE 200 REQUIREMENTS, IS ACCEPTABLE TO THE LOCAL UTILITY AND THE LOCAL SHOWN SHOWN AND CLAY INCREMENT OF MATERIAL AND CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF MATERIAL CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL. USE CLEAN SAND AND CLAY INCREMENT OF THE CROWNED GROUND TEST FRIGHT TO BURNAL THE CROWNED GROUND TEST FROM THE CROWNED

, ALL DETAILS SHOWN ARE DIAGRAMMATICAL ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DIE TO SITE SPECIFIC CONDITIONS. , NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING THE GROUND SYSTEM DUE TO SITE/SOIL CONDITIONS.

PLANS PREPARED FOR:

CROWN

L GROUND CONNECTIONS: WHERE GROUND CONNECTIONS ARE MUDE. THE CONTACT POINTS SHULL BE THOROUGH Y CLEMED AND MUDE PREE OF FOREIGN MATERIAL SCHALLS, PARTY OF THE CONTACT POINTS AND MUDE CONTRESS FOR THE SECOND REPORT TO SOUTHWARD CONTRESS FOR THE GROUND REPORT TO SOUTHWARD CONTRESS FOR THE GROUND RESED IN CORDINATOR WHEN LOTS FOR THE GROUND RESED IN CORDINATOR WHEN LOTS FOR THE GROUND RESED IN CORDINATOR WHEN LOTS FOR THE SECOND RESED IN CORDINATOR WHEN LOTS FOR THE SECOND RESED IN CORDINATOR WHEN THE STALLE TO MEET HANKING BEED AND CORDINATOR RESERVED TO MEET THE SECOND RESED IN CORDINATOR RESED AND CORDINATOR RESERVED TO MEET THE SECOND RESEARCH RESEARC

ROUND WRE: JNSIDE WRE SHALL BE NO. 8 AWE THAN OR THAN-2 CLASS B STRANDED COPPER CABLE RATED FOR 80 WC (MET AND DRY) OPERATION, GREEN INSULATED (A NIGH-STRAND COUNT WRE IS PREFERRED).

EXOTHERMIC MELINIC: EXOTHERMIC MELIS SHALL BE CAUMELD, A RECISTERED TRADEMARK OF EIRCO PRODUCTS, INC. OF CLEVELAND, OHO, OR THERMOMELD, A DIVISION OF CONTINENTAL INDUSTRIES, INC. OF TILSA OKLAHOMA OR EQUIVALENT.

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PURPOSES ONLY FOR PERMITTING GROUND ROD: 587 X 8-FEET (MINIMUM LENGTH) STEEL WITH PURE COPPER LICCET NOT LESS THAN 0.0012 NCHES THICK, GROUND RODS SHALL BE SPACED NO GREATER THAN 15 FT. O.C. AND NO LESS THAN 8 FT. O.C.

6. GROUND ROD COUPLING: SEY GROUND ROD COUPLING WAVE GYTHE SAME MITERAL AS THE GROUND ROD COUPLING: SEY GROUND ROD COUPLING SEY OF A MACHINAY OF SEY IN LEGISTRY AND CONVENIENCE OF A MACHINA OF SEY IN A MANUAL WAY THOOGRESS OF A DOT DISCHAULD ROD SHALL BE ANDEL OF A MANUAL OF SEY A MANUAL OF SEY IN LEGISTRY, AND CONVENIENCE OF A MANUAL OF SEY A MANUAL OF SEY A MANUAL OF SEY IN LEGISTRY, AND CONVENIENCE OF A MANUAL OF SEY AND AND CONVE

I, CUPS, WHEN SECURING ANY GROUND WRES, SOUD OR STRANGED, INSULATED OR UNINSULATED, NEIVER USE ANY CUPS OR OTHER DEVICES THAT ARE CONDUCTIVE AND FORM A CLOSED LOOP, METALLIC CUPS ARE ACCEPTABLE IF THEY DO NOT FORM A CLOSED LOOP.

TO DROUND CLAUP ERRODY GAR STITE IL CLAUP WITH TWO-HOLE PROVISIONS FOR LONG BARREL MULTIPLE CRAUP TWO-HOLE LUGS.

TO COAK GROUNDING TIT, COAK GROUND KITTS SHALL BE ROWN THE SAME INMURPHICIPLES AS THE COAK GROUNDING THE SHALL BE SIGNED STAPP THE WITH HOLE AND KITTS SHALL BE SIGNED STAPP THE WITH SHAKEL HOLE THE ROWER BY THE ROWER THE COAK SHALL BE SIGNED STAPP THE WITH SHAKEL HOLE THOSE SHALL BE SIGNED AND THE SHALL BE SHAL

ANTENNA GROUNDING - ALL ANTENNAS (NICLIDANO THE GRO ANTENNO) ARE GROUNDED BY THEIR AUTENNASTS AND BY THE GROUND KITS ON THE COLATAL CHEEL CONNECTION IO THE COLAT GROUND BASIS DO NOT REVIAL ESPACITE ANTENNAS GROUND CONNECTIONS UNLESS SECURED BY THE ANTENNAS MANUFACTURES, THE GROS ANTENNAS MAST BE REVIALED AND CONNECTION TO THE CANTENNAS MAST BERNIED AND CON

TI, ANTI-OMDIATION COMPOUND, ANTI-OMDIATION COMPOUND SWALL BE THYOUGH AND BETTIN COMPAGNED (TIM OF JET LIBE, MC) OR BURBOY PENETROX - E. ANTI-OMDIATION COMPOUND SWALL BE APPLIED BETTINES LIVED AND GROWN DATA ONLY. DO NOT COMPOUND SWAL DE APPLIED BETTINES LIVED AND GROWN DATA ONLY. DO NOT COMPOUND THE LIVED AND GROWN DATA ONLY. DO NOT COMPOUND THE LIVED AND GROWN DATA ONLY. DO NOT COMPOUND AND GROWN DATA ONLY. DO NOT COMPOUND AND GROWN DATA ONLY COMPOUND AND GROWN DATA ONLY COMPOUND AND GROWN DATA ONLY COMPOUND COMPOUND AND GROWN DATA ONLY COMPOUND AND GROWN DAT

RF AND ODAS POLE APPURTEMANCE INSTALLATION RELATED NOTES

GBERAL PROVIDE ALL MORA EDURMENT, AND MATERIAN RECEISANT FOR RECEIVED, RETHAND, TERMA, AND AUSTRIAN ATTEMA CHALS FROM THE ANTEMA TO THE CONNETTIONS AT THE SHEET TRANSMISSION STETLANTS THAT SHE SHALL AUGUSTUPE SHOWN ON RECLIERCE OF A COMPLET OFERVATION STETLA, ANTEMA CHALS, CONNECTIONS, AND THINKS SHALL BE THAT FOR SHALL POLICY OF ANTI-PLANSMISSION CHARGES, CONNECTIONS, AND THINKS SHALL BE THAT FOR SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL POLICY OF ANTI-PLANSMISSION CHARGES AND SHALL BE THE SHALL PROVIDED THE SHALL PROVIDED

COMMUL CHRILE LENGTHS SHALL BE FIELD MEASURED, INSTALLER SHALL NOTITY CHRIBER PRIOR TO PLIKCHASE OF CHRILE OF THE OVERALL LENGTH REQUIRED.
COMMUL CHRILE TYPE AND DIMENTER SHALL BE VERRIFED WITH CARRIER. COMML CABLES SHALL BE LABELED IN ACCORDANCE WITH CHARIER BLECTRICAL MATERIALS AND METHODS SPECIFICATIONS, ALL MAIN CHALES WILL BE COLOR COOCD AT REE LOCATIONS: A) AT AMTERNA PRIOR TO JUMPER, B) EXTERIOR PART OF THE WAVE GLIDE ENTRY PORT (AT THE SHELTERICABNET WALL, C) INTERIOR OF THE

D. INSTALL CONNECTORS TO COMMALOUALE AT BOTH DADS (MATEMAN END AND ETS LOCATION).

B. LYDNIS SUCCESSFUL COMPLETION OF THE SMEEP TEST, THE CONTINCTOR SHALL PROVIDE A MEATHERTHORT SEAL ON THE COMM CABLES AT THE ANTEMAN CONNECTION ONLY. F. THE INMIUM BENDING INCIDES FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOWOR PER THE MANUFACTUREN, WHICHER'S IS MORE CONSERVATIVE CABLE. IN ARE OR CABLE TRAY. IN CONDUIT

, CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENDS, CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD

A. GROUNDING KITS - AFTER INSTALLATION OF GROUND STRAPS, THE CONNECTIONS SHALL BE MADE MEATHER TIGHT USING MEATHERPROOF KITS AS IDENTIFIED, GROUND FIGHALS SHALL BE BROUGHT OUT IN THE DOWNWARD DIRECTION FROM THE CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

8.2 ANTENNA REQUIREMENTS:

1. AZIMUTHS ARE ORIENTED CLOCKWISE FROM TRUE NORTH.

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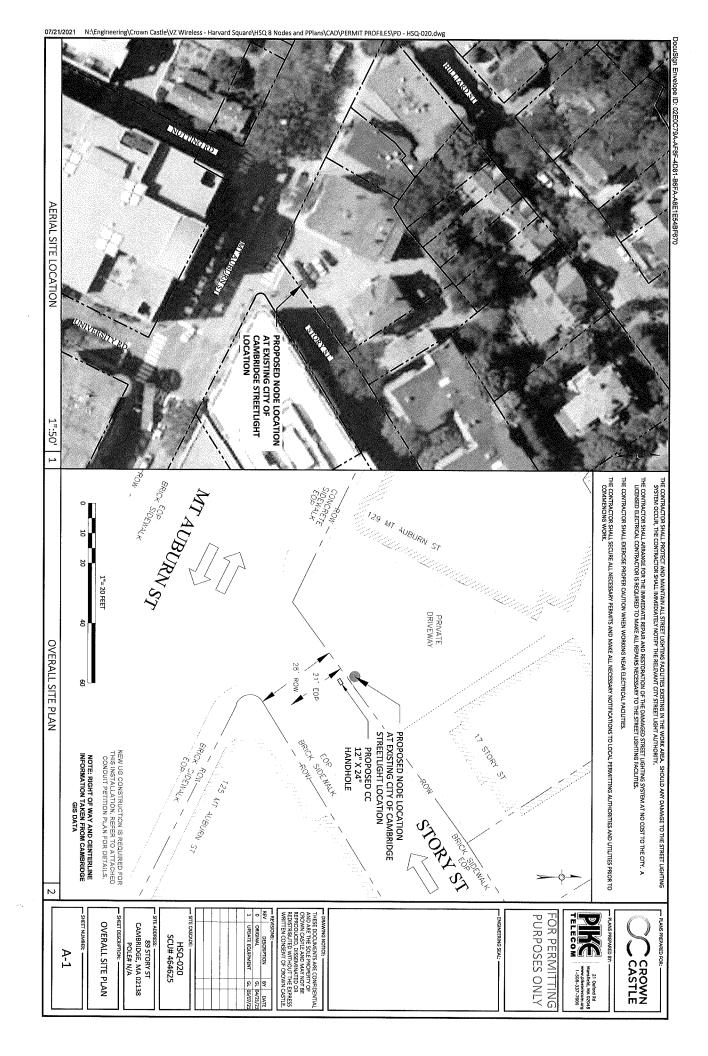
HSQ-020 SCU# 464625

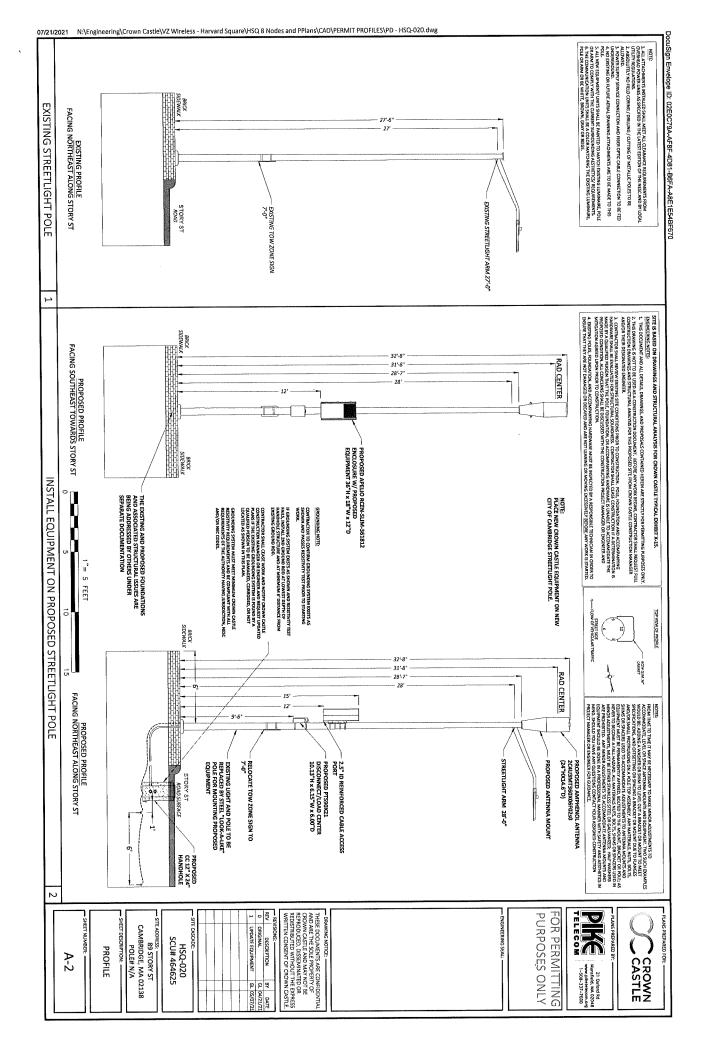
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CAMBRIDGE, MA 02138 POLE# N/A E ADDRESS: 89 STORY ST

GENERAL NOTES

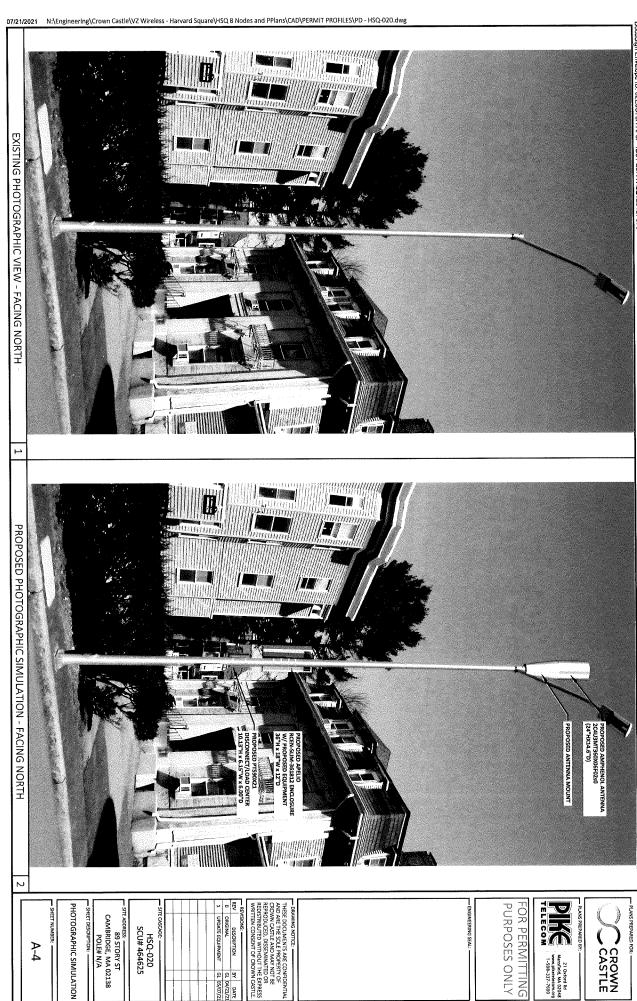
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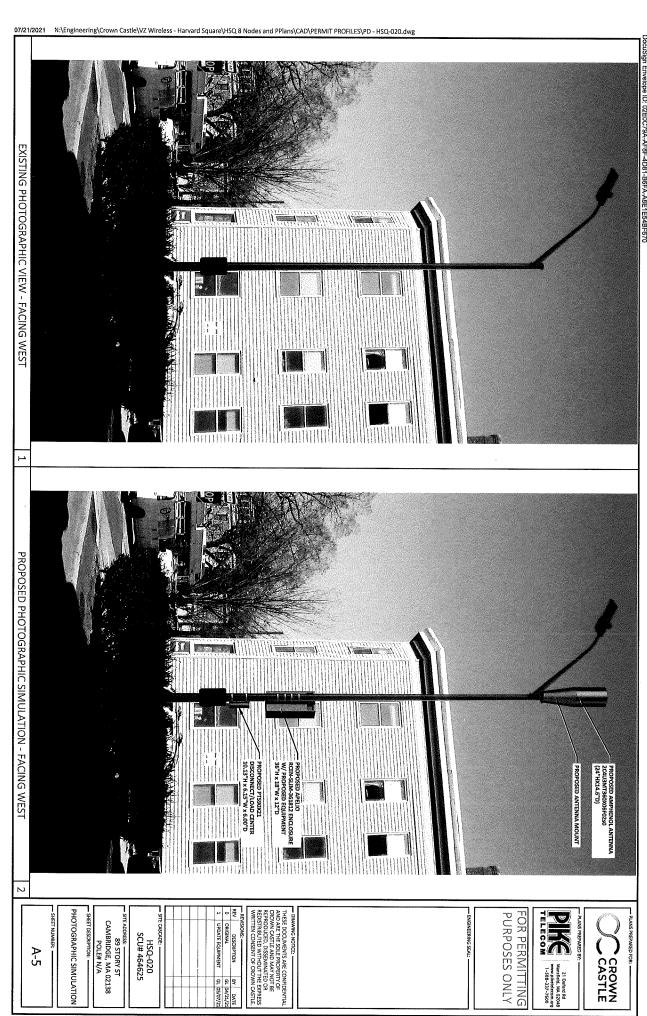




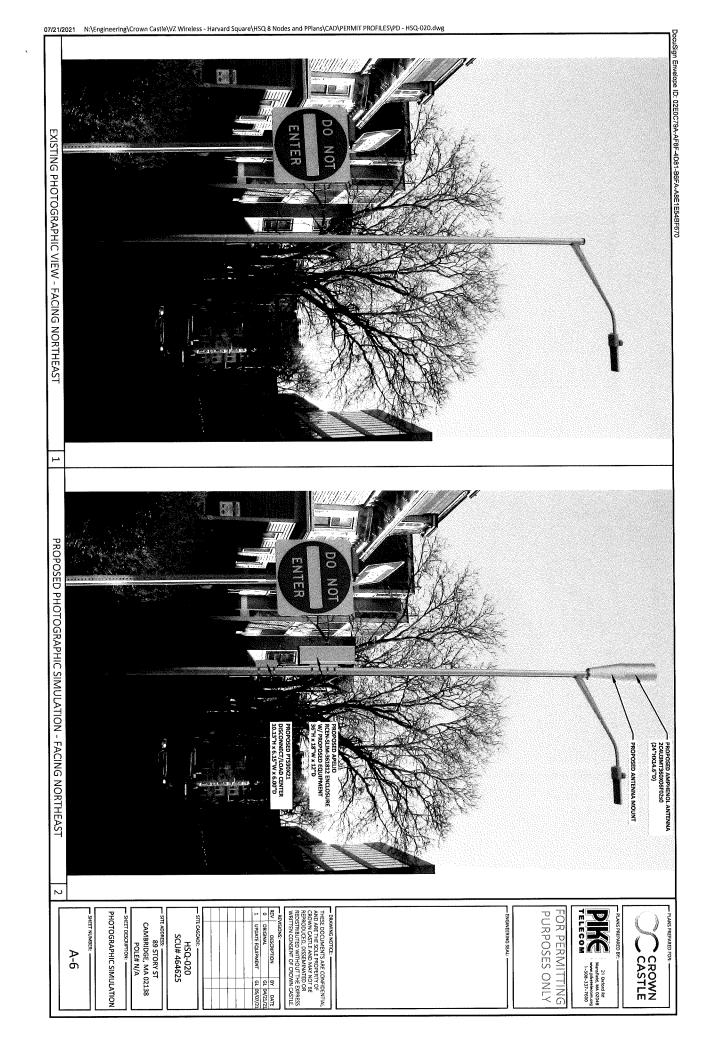
07/21/2021 N:\Engineering\Crown Castle\VZ Wireless - Harvard Square\HSQ 8 Nodes and PPlans\CAD\PERMIT PROFILES\PD - HSQ-020.dwg DocuSign Envelope ID: 02E0C79A-AF8F-4D81-B6FA-A8E1E54BF670 EXISTING PHOTOGRAPHIC VIEW - FACING SOUTHWEST PROPOSED PHOTOGRAPHIC SIMULATION - FACING SOUTHWEST - PROPOSED APELIO
RCEN-SLIM-361812 ENCLOSURE
W/ PROPOSED EQUIPMENT
36"H x 18"W x 12"D PROPOSED AMPHENOL ANTENNA ZC4U3MT360X06F0Zs0 (Z4"HX14.6"D) PROPOSED ANTENNA MOUNT STE ADDRESS.

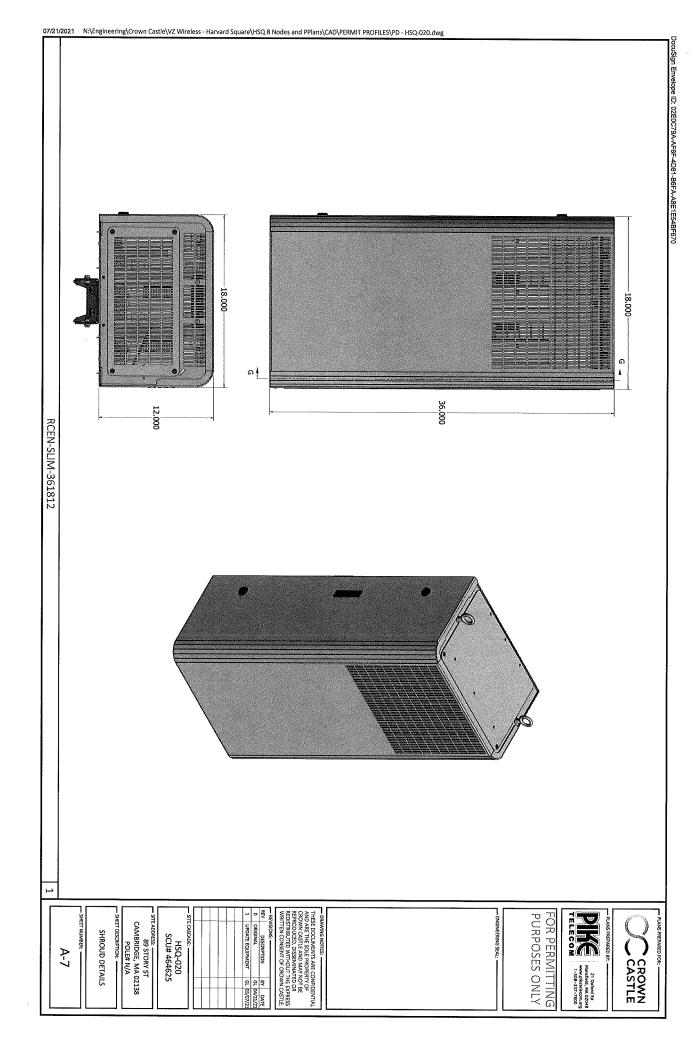
89 STORY ST
CAMBRIDGE, MA 02138
POLE# N/A
SHEET DESCRIPTION: PHOTOGRAPHIC SIMULATION **PURPOSES ONLY** FOR PERMITTING PLANS PREPARED FOR: HSQ-020 SCU# 464625 CROWN A-3 21 Oxford Rd Mansfield, MA 02048 www.piketelecom.org 1-508-337-7600



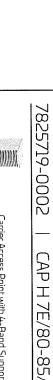


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7



Carrier Access Point with 4-Band Support for High Power LMR 750, USA 700, USA 750, SMR 800, CEL 850, AWS 1700 and PCS 1900 Applications, Fiber Fed with Fan Kit

Product Classification

CBC626T-D1:4310 | E11F13P04
Twin diplexer 555-960/1695-2690MHz,DC Low,4.3-10

Full performance in a fraction of the size Includes 600 MHz and AWS-3/4 bands

High power handlling

Product Type Product Brand

ERA®

Access point

General Specifications

Minimum Software Requirement

Dimensions

Height

Width Height

Dimensions

Finish

Painted

RF Connector Interface Body Style Long neck

RF Connector Interface **Mechanical Specifications**

4.3-10 Female

dc/AISG pass-through on low frequency port

New 4.3-10 connectors for improved PIM performance and size reduction

Weight

1.8 kg | 4.0 lb 47.0 mm | 1.9 in 150.0 mm | 5.9 in 150.0 mm | 5.9 in

(e) (e)

0

(50) (10 E)

Electrical Specifications

ALC Default Threshold

Electromagnetic Compatibility (EMC) Electrical Safety Standard Note Electrical Safety Standard

Flatness, Inband Ilnk mpedance

License Band

Mounting

Pole | Wall

ION-E SW V2.7

RF Antenna Port Interface Power Type

ij

4.3-10 Female

RF Antenna Port, quantity

176 mm | 6.929 in 824 mm | 32,441 in

220 mm | 8.661 in

IEC 62368 | UL 62368 45 dBm

This is not a consumer device. Additional information for US FCC on product label.

EN 301489

±2 dB

AWS 1700 | CEL 850 | LMR 750 | PCS 1900 | SMR 800 | USA 700 | USA

CAP H 7E/80-85/17E/19 F-AC-F1



21 Oxford Rd Mansfleid, MA 02048 www.piketniecom.org 1-508-337-7600

PLANS PREPARED FOR:

CROWN

PURPOSES ONLY FOR PERMITTING

Detailed Product Specifications are available. Please contact your local CommScope representative.

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89 STORY ST
CAMBRIDGE, MA 02138
POLE# N/A

EQUIPMENT DETAILS

A-8

CAP-H 7E/80-85/17E/19 F-AC-F1

TWIN DIPLEXER (CBC626T-DL-4310 / E11F13P04)

0000 SE 120 CE 120

Azimuth Beamwidth (3 dB)

degrees

96.9° ± 26.7°

360°

5

XA X BASTA

œ g Ϋ́

> 4.2 ± 0.9 696-806

> 3.9 ± 0.7 806-960

Frequency Sub-Range

Frequency Range

₹

ELECTRICAL SPECIFICATIONS Low Band

Radame Color Options

610 x Ø371 mm (24.0 x Ø14.6 in)

4.3-10 FEMALE 18 PORTS

GREY, BROWN or BLACK

型 2 2 3 3 (2x) 696-960 (2x) ±45°

Input Power Isolation

> Interband intraband

8 8 8 dBc

25 > 28

2C4U3MT360X06Fxys0 1

Passive Intermodulation

3rd Order for 2x20 W Carriers

Jpper Sidelobe Suppression

Impedance Electrical Downtilt Elevation Beamwidth (3 d8)

Ohms degreas

≤ 1.5:1

⊗ 0°

72.0° ± 21.7°

360° 4.6

50

< -153 Ķ



2C4U3MT360X06Fxys0

Features

SG Pseudo Omni configuration with 18 connectors - Ideal for Small Cell / DAS applications - This antenna meets the requirements of the U-NII - Available for order with a grey, brown or black radome.

Connector

■ R1 ■ R2 (2x) 696-960

繳 **∸**

*** *** *** *** ***

縣公

■ P1 ■ P2 (2x) 3550-3700 4 PORTS ğ

8 PORTS ğ 36g

(4x) 1695-2700

š

CBRS

ξ

(1x) 5150-5925 2 PORTS 9 χγο ç 36°

4 PORTS

Azimuth Beamwidth (wgi

Or 360° ğ

20,40,60

o 360°

OMNI CONFIGURATION

Frequency Range (MHz)

MO.

Total Connector Count Electrical Downtilt Polarization

Connector Type

18-Port Canister Antenna (2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz OMNI | 24 IN | EXEDING



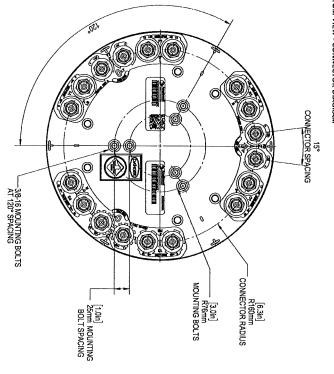
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Amphenol ANTENNA SOLUTIONS

18-Port Canister Antenna (2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz

2C4U3MT360X06Fxys0

BOTTOM VIEW - CONNECTOR DIAGRAM





PLANS PREPARED FOR: -

CROWN



21 Oxford Rd Mansfield, MA 02048 www.plketelecom.org 1-508-337-7600

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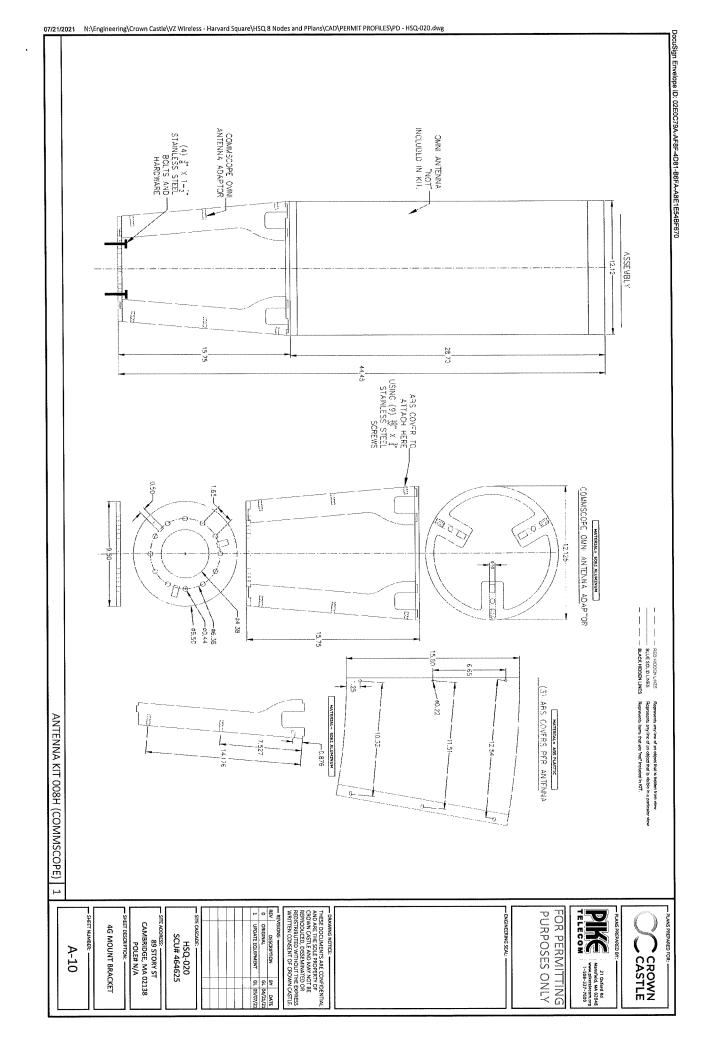
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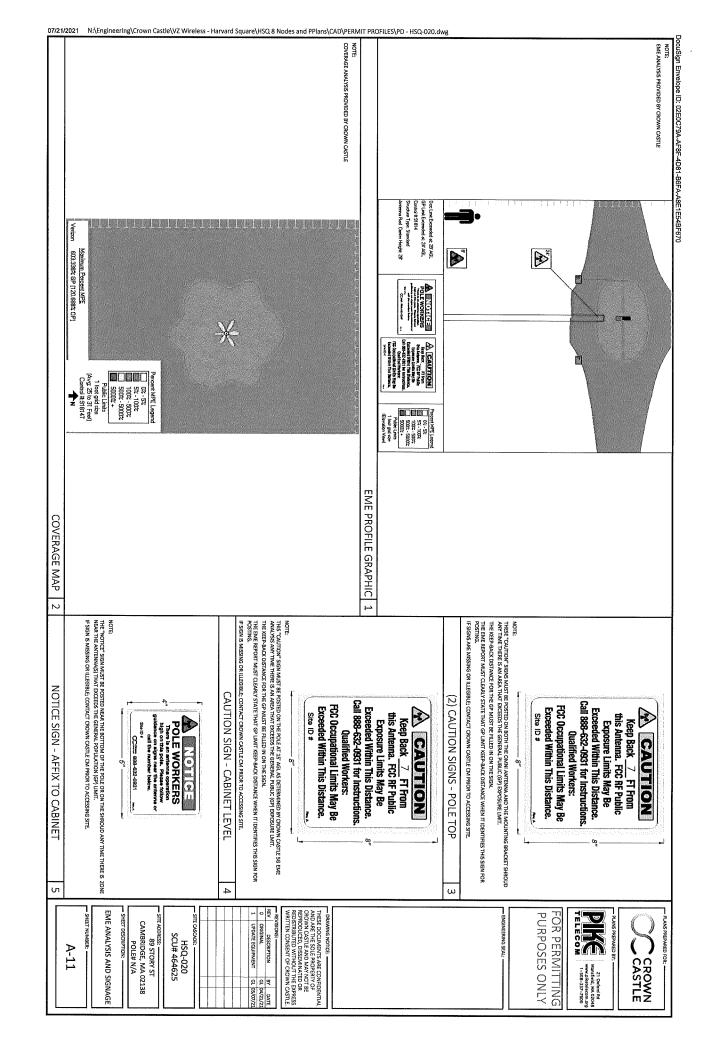
– SITE ADDRESS: 89 STORY ST CAMBRIDGE, MA 02138 POLE# N/A

4G ANTENNA DETAILS

A-9

2C4U3MT360X06Fxys0 - PORT DIAGRAM







PETITION PLAN FOR MT AUBURN ST AT STORY ST IN THE CITY OF CAMBRIDGE, MA

SMALL CELL POWER AND FIBER LATERAL NODE HSQ_020



SHEET INDEX

PETITION PLAN	2
COVER STREET	1
DESCRIPTION	SHEET#



PROPOSED CONDUIT INSTALLATION TRAFFIC MANAGEMENT PLAN MT AUBURN ST AT STORY ST CAMBRIDGE, MA FOR

SMALL CELL POWER AND FIBER LATERAL NODE HSQ_020



SHEET INDEX

DESCRIPTION COVER SHEET

1 COVER SHEET
2 TRAFFIC MANAGEMENT PLAN - PHASE 1

